रजिस्ट्री सं. डी एल—33001/ REGISTERED NO. DL—33001/98

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इस भाग में भिन्न पृष्ठ संख्या दी जाती है जिससे कि यह अलग संकलन के रूप में रखा जा सके
[Separate paging is given to this Part in order that it may be filed as a separate compilation]

भाग III—खण्ड 2
[PART III—SECTION 2]

पेटेन्ट कार्यालय द्वारा जारी की गई पेटेन्टों और डिजाइनों से सम्बन्धित अधिसूचनाएं और नोटिस
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कलकत्ता, दिनांक 17 जनवरी, 1998

पेटेंट कार्यालय के कार्यालयों के पते एवं क्षेत्राधिकार

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पेटेंट कार्यालय शाखा, टाँडो इस्टेट,
तीसरा तल, लोअर परेल (प.),
मुम्बई-400013 ।

गुजरात, महाराष्ट्र, मध्य प्रदेश
तथा गोआ राज्य क्षेत्र एवं संघ
शासित क्षेत्र, दमन तथा दीव एवं
दादरा और नगर हवेली ।

तार पता - "पेटेंटोफिस"

पेटेंट कार्यालय शाखा,
एनेक्स सं. 401 से 405, तीसरा तल,
नगरपालिका बाजार भवन,
सरस्वती मार्ग, करोल बाग,
नई दिल्ली-110 005 ।

हरियाणा, हिमाचल प्रदेश, जम्मू
तथा कश्मीर, पंजाब, राजस्थान,
उत्तर प्रदेश तथा दिल्ली राज्य
क्षेत्रों एवं संघ शासित क्षेत्र चंडीगढ़ ।

तार पता - "पेटेंटोफिक"

पेटेंट कार्यालय शाखा,
विंग "सी" (सी-4, ए),
तीसरा तल, राजाजी भवन,
बसन्त नगर, चेन्नई-600090 ।

आन्ध्र प्रदेश, कर्नाटक, केरल, तमिलनाडु,
तथा पाण्डिचेरी राज्य क्षेत्र एवं
संघ शासित क्षेत्र, लक्षद्वीप, मिनिकाय
तथा एमिनिदिवि द्वीप ।

तार पता - "पेटेंटोफिस"

पेटेंट कार्यालय (प्रधान कार्यालय)
निजाम पैलेस, द्वितीय बहुमंजिला कार्यालय
भवन, 5, 6 तथा 7वाँ तल,
234/4, आचार्य जगदीश बोस मार्ग,
कलकत्ता-700 020 ।

भारत का अवशेष क्षेत्र ।

तार पता - "पेटेंट्स"

पेटेंट अधिनियम, 1970 या पेटेंट नियम, 1972 में अपेक्षित सभी आवेदन-पत्र, सूचनाएं, विवरण या अन्य प्रलेख पेटेंट कार्यालय के केवल उपयुक्त कार्यालय में ही प्राप्त किए जाएंगे ।

शुल्क : शुल्कों की अदायगी या तो नकद की जाएगी अथवा उपयुक्त कार्यालय में नियंत्रक को भुगतान योग्य धनादेश अथवा डाक आदेश या जहां उपयुक्त कार्यालय अवस्थित है, उस स्थान के अनुसूचित बैंक में नियंत्रक को भुगतान योग्य बैंक ड्राफ्ट अथवा चैक द्वारा की जा सकती है ।

Aplication for the Patent filed at the Head Office 234/4, Acharya Jagadish Bose Road, Calcutta-20.

The dated shown in the crecent bracked are the dated claimed under section 135, under Patent Act, 1970.

26-11-1997

2225/Cal/97. Daewoo Electronics Co., Ltd., "Cassette loading device in a video cassette recorder using a pressing member having a gear structure" (Convention No. 96-78382 on 30-12-96 in South Korea).

2226/Cal/97. The Coca-Cola Company, "Easy open flexible pouch" (Convention No. 08/756, 528 on 26-11-96 in USA).

2227/Cal/97. The Coca-Cola Company, "A stable flexible pouch and method for making the pouch" (Convention No.08/757, 822 on 27-11-96 in USA).

2228/Cal/97. Int Labs, Inc., "Method and apparatus for enabling the transmission of multiple wide bandwidth electrical signals".

2229/Cal/97. Int Labs, Inc., "Technique for recovering an amplitude modulated carrier".

2230/Cal/97. Int Labs, Inc., "Technique to encode multiple digital data streams in Ltd. bandwidth for transmission in a single medium".

2231/Cal/97. Int Labs, Inc., "An analog technique to detect asymmetric radio frequency pulses".

2232/Cal/97. 3-Dimensional Pharmaceuticals, Inc., "Aminoguanidines and alkoxyguanidines as protease inhibitors, pharmaceutical compositions and process for preparation of such compound/compositions" (Convention No. 60/031, 822 on 26-11-96 in USA).

2233/Cal/97. Nokia Telecommunications Oy, "System for ensuring emergency communication in a wireless local loop environment" (Convention No. 964714 on 26-11-96 in Finland).

2234/Cal/97. 3- Dimensional Pharmaceuticals, Inc., "Aminoguanidines and alkoxyguaninines as protease inhibitors" (Convention No. 60/031, 822 on 26-11-96 in U.S.A.).

27-11-97

2235/Cal/97. Wago Verwaltungsgesellschaft MBH, "Connecting clamp for electric conductors" (Convention No. 19654523.4 on 19-12-96 in Germany).

2236/Cal/97. Kone Oy, "Apparatus for the measurement of elevator load" (Convention No. 965139 on 20-12-96 in Finland).

2237/Cal/97. Ropapharm B.V., "Pharmaceutical compositions, based on etheric oils obtained from plants for use in the human and veterinary medical field".

2238/Cal/97. DSC Telecom L.P., "Methods and apparatus for high-speed data transfer that minimizes conductors" (Convention No. 60/032, 045; 60/031, 898; 60/031, 828 on 27-11-96 in USA).

2239/Cal/97. W. Schlafhorst AG & Co., "Winding aggregate (Prining Layout) of a textile machine producing cross coil" (Convention No. P 19650933.5 on 7-12-96 in Germany).

2240/Cal/97. Int Labs, Inc., "Narrow band-pass interferometric filter having enhanced operational characteristics" (Convention No. 60/048, 853 on 6-6-97 in USA).

2241/Cal/97.Int Labs, Inc., "Video data transmission and display system and associated methods for encoding/decoding synchronization information and video data" (Convention No. 60/056, 945 on 25-8-97 in USA).

2242/Cal/97. Minipack-Torre S.P.A., "Device for packaging products in containers sealed with stretchable plastic film" (Convention No. MI 96 A 002637 on 17-12-96 in Italy).

2243/Cal/97. Westinghouse Electric Corporation, "Fully redundant, workstation-based distributed process control system" (Convention No. 08/766, 017 on 13-12-96 in USA).

28-11-1997

2244/Cal/97. Daewoo Electronics Co. Ltd., "Cassette loading and unloading device for use in a video cassette recorder" (Convention No. 97-29279 on 30-6-97 in South Korea).

2245/Cal/97. Daewoo Electronics Co. Ltd., "Video cassette recorder equipped with a tape loading apparatus". (Convention No. 96-78357 on 30-12-96 in South Korea).

2246/Cal/97. Daewoo Electronics Co. Ltd., "Error concealment method and apparatus" (Convention No. 96-72672 on 27-12-96 in South Korea).

2247/Cal/97. Kenneth Reay Code, "Absorbent composition"

2248/Cal/97. David Phillip Moakes, "Improvements in or relating to a connector" (Convention No. 9624816.6 on 28-11 96 in Great Britain).

2249/Cal/97. Samsung Electronics Co. Ltd., "Optical attenuator and its manufacture" (Convention No. 61400/1996 on 3-12-96 in Korea).

2250/Cal/97. Hitachi, Ltd., "CDMA communication system and its transmission power control method" (Convention No. 08-326493 on 6-12-96 in Japan).

2251/Cal/97. Lifescan, Inc., "Visually-Readable reagent test strip" (Convention oN. 08/779735 on 31-12-96 in USA).

2252/Cal/97. Eaton Corporation, "Improved axial magnetic field coil for vacuum interrupter" (Convention No. 08/769, 810 on 19-12-96 in USA).

2253/Cal/97. Eaton Corporation, "Ion source block filament with labyrinth conductive path" (Convention No. 08/760, 714 on 5-12-96 in U.S.).

01-12-1997

2254/Cal/97. ICI India Limited, "A process for the recovery of oxidizer phase".

2251/Cal/97. Global Palm Products SDN. BHD., "Process for the Production of monoglyceride based on the glycerolysis of methyl ester" (Convention No. PI 9703796 on 19-8-97 in Malaysia).

2256/Cal/97. Canal+Societe Anonyme, "Apparatus for protection of recorded digital data".

2257/Cal/97. Canal+Societe Anonyme., "Apparatus for encrypted transmission".

2258/Cal/97. Canal+Societe Anonyme, "Apparatus for recording of encrypted digital data".

2259/Cal/97. Siemens Aktiengesellschaft, "Turbine blade and use in a gas turbine plant" (Convention No. 19649924.0 on 2-12-96 in Germany).

2260/Cal/97. TRW Inc., "Multiple altitude satellite relay system and method".

02-12-1997

2261/Cal/97. Montell North America Inc., "Process for repairing plastic coatings of metal pipes" (Convention No. M 196 A 2519 on 2-12-1996 in Italy).

2262/Cal/97. Samsung Electronics Co, Ltd., "Search apparatus and method for use in CDMA receiver" (Convention No. 61401/1996 on 3-12-96 in Korea).

2263/Cal/97. Lucas Industries PLC., "Control system "Convention No. 9626572.3 on 20-12-96 in U.K.).

2264/Cal/97. ABB Air Preheater, Inc., "Deflector and screen arrangement for ash separation from flue gas". (Convention No. 759, 721 on 6-12-96 in U.S.A.).

2265/Cal/97. Hitachi Construction Machinery Co. Ltd., "Hydraulic circuit system for hydraulic working machine" (Convention No. 8-329876 on 10-12-96 in Japan).

2266/Cal/97. PPG Industries, Inc., "Process for improving adhesion of electroconductive metal oxide layers to polymeric substrates and articles produced thereby" (Convention No. 08/766549 on 11-12-96 in USA).

2267/Cal/97. Loramendi, S.A., "Improved sand mould air impact or blast compacting machine" (Convention No. 9602665 on 17-12-96 & 9700977 on 7-5-97 in Spain).

2268/Cal/97. Uponor AB, V., "Method and apparatus for using recycled plastic material, and a plastic product made by an extruder" (Convention No. 964991 on 12-12-96 in Finland).

2269/Cal/97. Inversiones Iglor, S. L., "Sand mote or mould conveying system" (Convention No. 9602703 on 19-12-96 in Spain).

2270/Cal/97. LG Electronics Inc., "Oil pickup apparatus for hermetic compressor" (Convention No. 45986/1996 on 6-12-96 in Republic of Korea).

ALTERATION OF DATE

Patent No. 180232 (945/Mas/91) Ante-dated to 24th November, 1988.

Patent No. 180270 (27/Mas/95) Ante-dated to 22nd March, 1993.

Patent No. 180280 (31/Mas/95) Ante-dated to 31st March, 1993.

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स्वीकृत सम्पूर्ण विनिर्देश

एतद्द्वारा यह सूचना दी जाती है कि सम्बद्ध आवेदनों में से किसी पर पेटेंट अनुदान के विरोध करने के इच्छुक कोई व्यक्ति, इसके निर्गम की तिथि से चार (4) महीने या अधिक ऐसी अवधि जो उक्त 4 महीने की अवधि की समाप्ति के पूर्व पेटेंट नियम, 1972 के साथ विहित प्रपत्र 14 पर आवेदित एक महीने की अवधि से अधिक न हो, के भीतर कभी भी नियंत्रक, एकस्व को उपयुक्त कार्यालय में ऐसे विरोध की सूचना विहित प्रपत्र 15 पर दे सकते है । विरोध संबंधी लिखित वक्तव्य उक्त सूचना के साथ अथवा पेटेंट नियम, 1972 के नियम 36 में यथा विहित इसकी तिथि के एक महीने के भीतर ही फाइल किए जाने चाहिए ।

"प्रत्येक विनिर्देश के संबंध में नीचे दिए वर्गीकरण, भारतीय वर्गीकरण तथा अन्तर-राष्ट्रीय वर्गीकरण के अनुरूप है ।"

रूपांकन (चित्र आरेखों) की फोटो प्रतियां, यदि कोई हों, के साथ विनिर्देशों की अंकित अथवा फोटो प्रतियों की आपूर्ति पेटेंट कार्यालय, कलकत्ता अथवा उपयुक्त शाखा कार्यालय द्वारा विहित लिप्यान्तरण प्रभार जिसे उक्त कार्यालय से पत्र व्यवहार द्वारा सुनिश्चित करने के उपरांत उसकी अदायगी पर की जा सकती है । विनिर्देश की पृष्ठ संख्या के साथ प्रत्येक स्वीकृत विनिर्देश के सामने नीचे वर्णित चित्र आरेख कागजों को जोड़कर उसे 2 से गुणा करके, (क्योंकि प्रत्येक पृष्ठ का लिप्यान्तरण प्रभार 2/- रु. है) फोटो लिप्यान्तरण प्रभार का परिकलन किया जा सकता है ।

Ind. Cl. : 32E 180161.

Int. Cl. : C 08 F, 110/06.

Title : "A PROCESS FOR THE MANUFACTURE OF ELASTOMERIC PROPYLENE COPOLYMERS".

Applicant : BP CHEMICALS LIMITED, A BRITISH COMPANY, OF BELGRAVE HOUSE, 76 BUCKINGHAM PALACE ROAD, LONDON SW1W 0SU, ENGLAND.

Inventors : JEAN-CLAUDE ANDRE BAILLY.
PHILIPPE BRES.

Application for Patent No. 696/Del/90 filed on 10-7-90.

Appropriate Office for Opposition- Proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

(Claims-11)

Process for the manufacture of copolymers containing, on a weight basis, from 20 to 80% of propylene and from 80% to 20% of ethylene and/or of 1-butene and optionally of one or more alphaolefins containing from 5 to 12 carbon atoms, which comprises :—

(a) Preactivating in any conventional manner a magnesium dichloride support in the presence of an organic electron donor compound D_1 free from labile hydrogen to produce a preactivated support in the form of spherical particles having a mass mean diameter of 5 to 100 microns and a particle sizedistribution such that the ratio of the mass-mean diameter, D_m to the number-mean diameter, D_n is lower than 5 said preactivated support consisting of 80 to 99 mol of mangesium dichloride and 1 to 20 mol% of D_1,

(b) treating said preactivated support with at least one electrondonor compound containing labile hydrogen, D_2;

(c) treating the product of step (b) with at least one internal electron donor compound D_3 selected from the esters of an aromatic carboxylic acid;

(d) impregnating said treated support with titanium tetrachloride in a molar quantity which is in excess selective to magnesium dichloride, and then removing the unimpregnated titanium tetrachloride by at least one washing with the aid of a liquid hydrocarbon;

(e) activating said impregnated support by contacting it with titanium tetrachloride and washing it with a liquid hydrocarbon;

(f) contacting said activated catalyst with (i) at least one alphaolefin containing from 2 to 12 carbon atoms, (ii) an external electron-donor compound D_4 and (iii) a cocatalyst (A) consisting of trialkylaluminium and optionally a small quantity of an alkylaluminium halide to produce a prepolymer;

(g) and subjecting said prepolymer to a gas phase copolymerization by bringing said prepolymer into contact with a mixture comprising propylene, ethylene and/or butene and optionally an alpha-olefin containing from 5 to 12 carbon atoms, in a proportion such that propylene represents from 20 to 80% of the total volume of the olefins to be copolymerized.

Ref : A Reference has been made to french patent No. 2460964.

Agent : Remfry & Sagar.

(Complete Specification 32 Pages & Drawings Sheet Nil).

Ind. Cl. : 157 D 3 158D 180162

Int. Cl. : B66C 7/00 9/00.

A TRACK AND TROLLEY APPARATUS FOR MOVABLY SUPPORTING WALL PANELS.

Applicant : PANELFOLD, INC., OF 10700 NORTHWEST 36TH AVENUE, MIAMI, FLORIDA 33167, U.S.A.

Inventor : DONALD LEAL HARRIS.

Application for Patent No. 700/D/90 filed on 11-7-90.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

16 Claims

A track and trolley apparatus for movably supporting wall panels, (13) said track (30) provided with spaced track flanges (28) comprising a track slot, (32) said trolley (20) having four radial wheels (24) mounted in laterally spaced tandem pairs on a rigid trolley body (22) for rotation about parallel horizontal axes, said wheel (24) rollingly engaging said track flanges, (28) a supporting member (34) extending through said track slot (32) and connecting said trolley (20) with a wall panel, (13) said track (30) provided with at least one track intersection (12, 16) and said trolley (30) having a pair of longitudinally spaced guide rollers (36) rotatable about vertical axes, said supporting member (34) being disposed between said guide rollers, (36) characterised in that said track intersection (12, 16) having at least two intersecting straight portions (42, 44) interconnected by a connecting track portion, said connecting track portion with at least one curved track flange edge, (40) the distance between and the outer diameter of said guide rollers (36) and the radius of said curved track flange edge (40) being dimensioned to maintain said supporting member (34) in spaced relation to said curved track flange edge (40) thereby enabling the lead guide roller (36) to follow said curved track flange edge (40) due to lateral force exerted on said trolley (20) during initial movement into said track connecting portion with the remaining movement of said trolley (20) through said intersection (12, 16) being automatically guided as said guide rollers (36) follow the track slot (32) in said track connecting portion.

(Complete Specification 26 pages Drawing 4 sheets).

Ind. Cl. : 39 K 180163

Int. Cl.4 : C 01 B 15/017.

STABILIZED AQUEOUS SOLUTION OF HYDROGEN PEROXIDE AND PROCESS FOR PREPARING THE SAME.

Applicant : INTEROX, A BELGIAM COMPANY, OF 33, RUE DU PRINCE ALBERT, B-1050 BRUSSELS, BELGIUM.

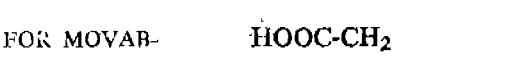
Inventor : DIRCK VAN HEMELRIJK, BE.

Application for Patent No. 704/Del/90 filed on 11-07-90.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules 1972), Patent Officer Branch, New Delhi-110 005.

11 Claims

A stabilized aqueous solution of hydrogen peroxide comprising from 0.1 to 99% by wt. of hydrogen peroxide and a compositon containing a stabilizer belonging to the category of the aminopolycarboxylic acids, and an alkali metal pyrophosphate of alkaline earth metal pyrophosphate, the proportion by weight of alkali metal or alkaline earth metal pyrophosphate to aminopolycarboxylic acid or one of its salts is between 0.2 and 4.0 and said aminopolycarboxylic acid corresponding to the following general formula :



where X is an integer equal to 0, 1 or 2 and
Y is also an integer equal to 0. 1 or 2; or with a salt of this acid.

(Complete Specification 15 Pages Drawings Nil.)

Ind. Cl. : 35 E 180164

Int. Cl.4 : CO 4B 35/10.

A PROCESS FOR THE PREPARATION OF REFRACTORY CASTABLES CONTAINING 45—50% ALUMINA.

Applicant : COUNCIL OF SCIENTIFIC & INDUSTRIAL RESEARCH, RAFI MARG, NEW DELHI-110001, INDIA AN INDIAN REGISTERED BODY INCORPORATED UNDER THE REGISTRATION OF SOCIETIES ACT (ACT XXI OF 1860).

Inventor : ANUKUL CHANDRA DAS, GOUTAM BANERJEE, SACHCHIDANANDA KUMAR.

Application for Patent No. 705/Del/90 filed on 2-07-90 Ante dated to 03-09-87.

Divisional to Patent No. 779/Del/97 filed on 03-09-97.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, New Delhi-110 005.

2 Claims

A process for the manufacture of refractory castables containing 45—50% alumina which have the specific properties as shown in column (3) of table II which comprises mixing 65—85 per cent by weight of aluminous grog, 4—25 per cent by weight of silliminate sand and/or technical alumina 4—6 per cent by weight of ultrafine spherical silica waste, 0.05—0.25 per cent by weight of defloculant such as herein described to obtain a homogenous dry mixture adding 4—7 per cent water to the said mixture and moulding into described shapes by vibration compection and thereafter demoulding, curing at 110°C or above to obtain the desired castables.

(Complete Specification 15 Pages Drawing Nil)

Ind. Cl. : 15DE 180165

Int. Cl. : F 16C 19/55.

A DOUBLE DECKER HIGH PRECISION BEARING.

Applicant : BHARAT HEAVY ELECTRICALS LIMITED, BHEL HOUSE SIRI FORT, NEW DELHI-110 049, INDIA, AN INDIAN COMPANY.

Inventor : HAR PRASAD.

Application for patent No. 711/Del/90 filed on 13-07-90. Complete left after provisional filed on 20-06-91.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, New Delhi-110 005.

3 Claims

A double decker high precision bearing comprising a first series rolling elements mounted on the inner race adapted to the mounted on the rotatable shaft, a second series rolling elements being mounted on the intermediate race mounted on

said first series of rolling elements, an outer race being provided over said second series of rolling elements to cover said rolling elements.

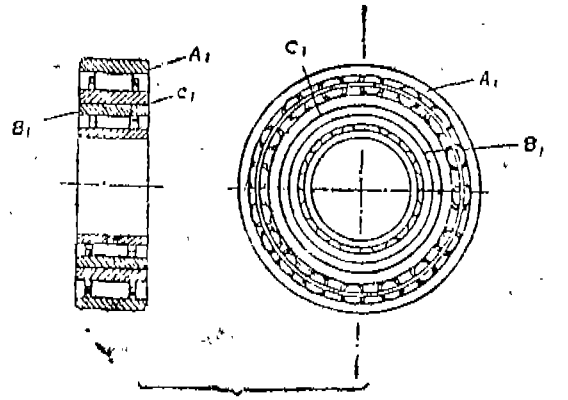


Fig. 2

(Provisional Specification 3 Pages Drawing 1 Sheet)
(Complete Specification 13 Pages Drawing 1 Sheet)

Ind. Cl. : 32 F8 (O) 180166

Int. Cl.[4] : C07D, 301/04

A PROCESS FOR THE MANUFACTURING OF ETHYLENE BY NON CATALYTIC OXIDATION OF ETHANE.

Applicant : COUNCIL OF SCIENTIFIC & INDUSTRIAL RESEARCH, RAFI MARG, NEW DELHI-110001.

Inventors : VASANT RAMCHANDRA CHOUDHARY, AMAR JEET MUNSHI RAM RAJPUT.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, New Delhi-110 005.

Claims 7

A process for manufacturing ethylene by non catalytic oxidation of ethane which comprises passing continuously ethane and oxygen (or air) along with steam through a reactor at a pressure in the range of 0.5—3.0 atmospheres, temperature in the range of 500—1000°C, wherein O_2/ ethane ratio is in the range of 0.0005|0.5, and steam/ethane ratio is in the range of 0.001 to 20 ata, gas hourly space velocity (GHSV) in the range of 100—50,00h, separating ethylene formed by known methods and if desired, recyling the unconverted reactants (ethane and oxygen) for further conversion of ethane.

(Complete Specification 17 Pages Drawing Sheets-nil)

Ind. Cl. : 260 CE LXII

Int. Cl.[4] : G06C 1/00; 9/00; 13/00; 15/00.

APPARATUS AND METHOD FOR ASSEMBLY OF DIRECT ACCESS STORAGE DEVICE WITH A PERSONAL COMPUTER.

Applicant : INTERNATIONAL BUSINESS MACHINES CORPORATION, USA OF ARMONK, NEW YORK 10504, USA.

Inventor : STEVEN ERNEST HOWELL; BRIAN ALAN TRUMBO.

Application for Patent No. 741/Del/90 filed on 20-7-90. 20-7-90.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, New Delhi-110 005.

Claims 9

A personal computer apparatus comprising at least one electromechanical direct access storage device for storing and delivering digital data and having a circuit board and first connector means mounted on said circuit board for establishing operative connections for the transfer of data to and from the storage device, a planar board for mounting circuit components for processing digital data and having second connector means mounted on said planar board for establishing direct operative connection between said planar board and said storage device, and said planar board one relative to the other for mating of said first and second connector means and with said circuit board parallel to said planar board.

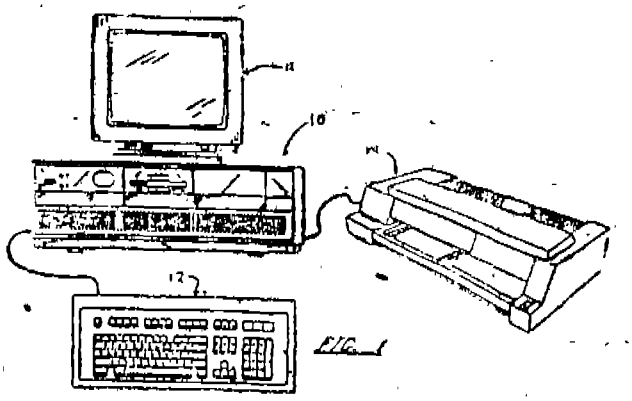


FIG. 1

(Complete Specification 16 Pages Drawing Sheets 4)

Ind. Cl. : 69 180168

Int. Cl. : H01H 33/00.

A MEDIUM TENSION CIRCUIT BREAKER.

Applicant : G E C ALSTHOM S. A., A FRENCH COMPANY OF 38, AVENUE KLEBER, 75116 PARIS, FRANCE.

Inventor : MICHEL PERRET, FRANCE.

Application for Patent No. 745/Del/90 filed on 23-7-90.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, New Delhi-110 005.

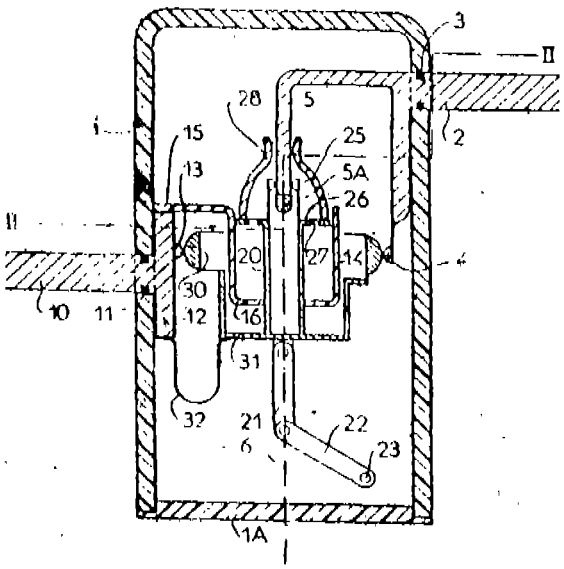
Claims 6

A medium tension circuit breaker comprising a casing of insulating material enclosing a gas having good dielectric properties and containing the following : first contacts connected to a first current terminal and second contacts connected to a second current terminal, a fixed arcing contact electrically connected to the first current terminal and a moving arcing contact fixed to a connecting rod mechanically connected to a drive member; and a moving permanent contact fixed to the moving arcing contact and providing an electrical connection between the first and second contacts when the circuit breaker is in the engaged position. The

moving permanent contact is a short tubular part with the first and second contacts being disposed respectively on two circular arcs.

Ref. No. : NIL.

Agent : REMFRY & SAGAR.



(Complete Specification 8 Pages Drawing 3 Sheets).

Ind. Cl. : 85J 180169

Int. Cl.[4] : F 27 B 1/00.

PROBE FOR DETERMINING THE TOPOGRAPHIC MAP OF THE LOADING SURFACE OF A SHAFT FURNACE.

Applicant : PAUL WURTH S. A., A COMPANY ORGANISED UNDER THE LAWS OF LUXEMBOURG, LUXEMBOURG.

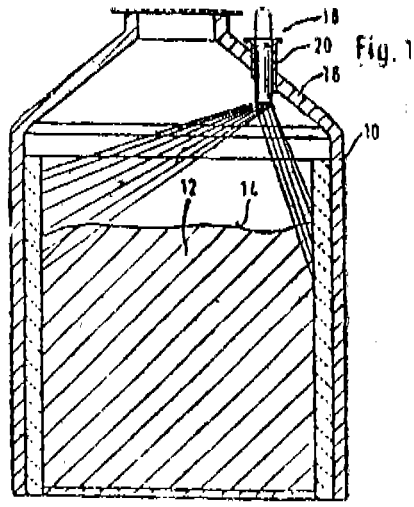
Inventor : EMILE LONARDI, EMILE BREDEN, JEANNOT LOUTSCH.

Application for Patent No. 754/Del/90 filed on 25-7-90.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, New Delhi-110 005.

Claims 5

Probe for determining a topographic map of the loading surface of a shaft furnace, comprising a radar antenna mounted in the wall of the shaft furnace above said loading surface, characterised in that said radar antenna is a complex antenna comprising an array of individual antennas, said individual antennas being connected to phase shifting circuits so as to provide an electronic scanning of said surface according to at least one direction.



(Complete Specification 10 Pages Drawing Sheets Nil.)

Ind. Cl. : 40F. 180170

Int. Cl.[4] : C08G 85/00.

AN IMPROVED REACTOR FOR THE PREPARATION OF CROSSLINKED MACROPOROUS GLYCIDYL COPOLYMERS.

Applicant : COUNCIL OF SCIENTIFIC & INDUSTRIAL RESEARCH, RAFI MARG, NEW DELHI-110 001, INDIA, AN INDIAN BODY INCORPORATED UNDER THE REGISTRATION OF SOCIETIES ACT (XXI OF 1860).

Inventors : RAGHUNATH ANANTH MASHELKAR, SURENDRA PONRATHNAM, CHELANATTU KHIZHAKKE MADATH RAMAN RAJAN, KAMLESH KUMAR, KRISHNADAS, GANGADHAR RAMCHANDRA AMBEKAR, JAIPRAKASH GANPATRAO SHEWALE, SURESH RAMNATH NAIK.

Application for Patent No. 760/Del/90 filed on 27-7-1990.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, New Delhi-110 005.

Claims 4

An improved reactor for the preparation of crosslinked macroporous glycidyl copolymer having the characteristics of uniform bead size and bead size distribution, desired pore size and pore size distribution, possess glycidyl functional groups thermal and mechanical stability during immobilization and resistant to attrition developed during the production of 6APA, useful for the preparation of immobilized of penicillin G acylase having application in the production of 6-APA which comprises of a jacketted vessel (1) having L/D ratio ranging from 1 to 5 the jacket having an inlet (10) and outlet (11) for the circulation of water through the jacket to maintain constant temperature in the vessel the vessel having an agitator shaft (4) provided with two baffled impellers (7), and placed in a spatial relationship with each other the impellers being placed at equidistant from the shaft to maintain L/D ratio of each compartment < 1, the said shaft also being provided with a circular plate consisting of a disc (12) with a plate (13) attached towards the base of the vessel and is attached perpendicularly to the base of vessel the jacketted vessel (1), having in inlet (2) provided at the upper portion of the vessel for introducing the reactants and an outlet (3) being provided for removing the vaporized pore generating solvent which might occur during polymerization the outlet being connected to a condenser (14); another inlet (5) being provided at the top of the vessel to return the condensed pore generating solvent that is collected as a condensate into the jacketted vessel; another inlet (6), being provided at the top of the vessel for the introduction of an inert gas into the reactor; a socket (8), being provided to the vessel

to monitor the temperature of the reaction; and an opening (9), being provided at the base of the jacketted vessel (1), for the discharge of the polymerized product.

(Complete Specification 10 Pages Drawing Sheets 2).

Ind. Cl. : 62E 180171

Int. Cl. : B05C 1/00, 3/00, 5/00, 9/00.

AN APPARATUS FOR MONITORING THE AMOUNT OF DIETHER IN A PERMANENT SPLIT CAPACITOR MOTOR.

Applicants : WHIRLPOOL CORPORATION 2000 M-63 BENTON HARBOR, MICHIGAN 49022 UNITED STATES OF AMERICA, A CORPORATION ORGANIZED AND EXISTING UNDER THE LAWS OF THE STATE OF DELAWARE, UNITED STATES OF AMERICA.

Inventors : LARRY T. BASHARK.

Application for Patent No. 771/Del/90 filed on 30-07-90.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules 1972), Patent Office Branch, New Delhi-110 005.

Claims 11

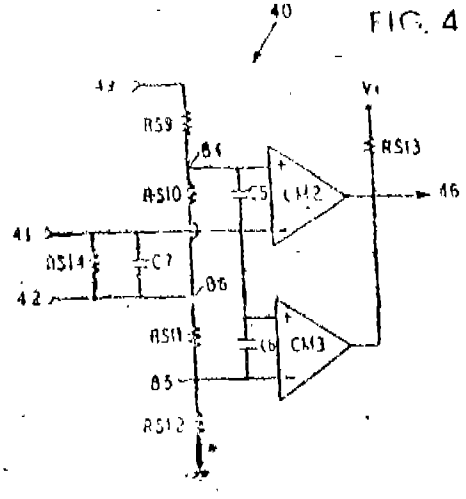
An apparatus for monitoring the amount of diether in a permanent split capacitor[10] motor having a first[12], and second motor windings[16] said motor being powered by a power supply having an alternating line voltage, said apparatus comprising;

a transformer sensor [20], [28], [30] connected to at least one of the first and second motor windings and providing current zero crossing signals representing the zero crossing of the alternating current in at least one of the first and second motor windigs;

a detection circuit [70] and [80] connected to the power supply for detecting the zero crossings of the power supply voltage and providing voltage zero crossing signals representing the zero crossings of the power supply voltage;

a processor [50] connected to the transformer circuit [40] and the detection circuit [70] and [80] and receiving as inputs the current zero crossing signals [48] and the voltage crossing signals [46] respective to the inputs the processor determining a motor phase angle and providing representation of the motor phase angle and responsive to the representations of the motor phase angles detecting the amount of diether in the motor and providing a representation of the diether, and means responsive to said diether representation for controlling operation of said motor.

FIG. 4



(Complete Specification 67 Pages Drawing 16 Sheet)

Ind. Cl. : 68D 180172

Int. Cl. : B66D 1/00.

GUIDE OR FEEDER CHAIN FOR POWER AND SUPPLY LINES.

Applicant : KABELSCHLEPP GESELLSCHAFT MIT BESCHRANKTER HAFTUNG, A GERMAN COMPANY, OF 5900 SIEGEN 1, MARIEN-BORNER STR. 75, FEDERAL REPUBLIC OF GERMANY.

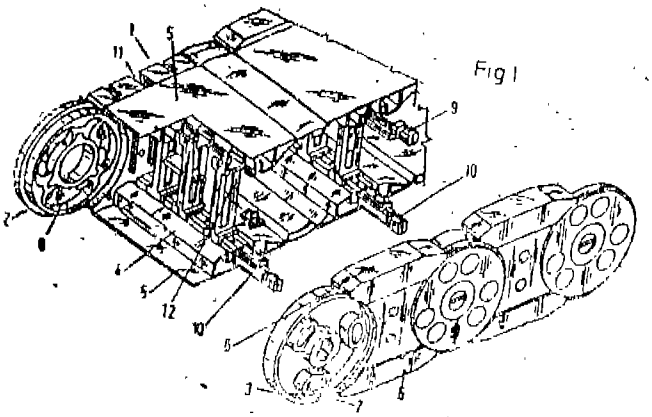
Inventor : MORITZ WERNER.

Application for Patent No. 788/Del/90 filed on Dated 6-8-90.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules 1972), Patent Office Branch, New Delhi-110 005.

Claims 6

A guide or feeder chain for power and supply lines is provided. The chain has a separable strap that comprises at least to two cross pieces that are interconnected by separating members that extend tran verse to the crosspieces, and also comprises dividers that are disposed parallel to the crosspieces. To increase the variation possibilities for the spacings of the separating members and the arrangement of the dividers, the separating members are provided with openings and plugs or insertion elements are disposed in these openings for the securement of the dividers.



(Complete Specification 12 Pages Drawing 2 Sheets).

Ind. Cl. : 40B 180173

Int. Cl.[6] : B01J 23/22.

A PROCESS FOR THE PREPARATION OF A CATALYST OF ZIEGLER-NATTA TYPE.

Applicant : B. P. CHEMICALS LTD., A BRITISH CO., OF BELGRAVE HOUSE, 76, BUCKINGHAM PALACE ROAD, LONDON SW1W OSU, ENGLAND.

Inventors :

1. JEAN-CLAUDE ANDRE BAILLY.

2. PHILIPPE BRFS.

Application for Patent No. 794/Del/90 filed on 7-8-1990.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, New Delhi-110 005.

10 Claims

A process for the preparation of a catalyst of Ziegler-Natta type having a spherical support of magnesium chloride by precipitating vanadium compound and a titanium compound on a support by reduction reaction of vanadium and of titanium which comprises reacting within a liquid hydrocarbon a titanium and vanadium-reducing agent chosen from organometallic compounds

with a vanadium compound and a titanium compound of the kind such as herein described, both said vanadium and titanium compound being soluble in the said liquid hydrocarbon and employed in such quantities that the molar ratio of the quantity of vanadium to that of titanium is between 70/30 and 99.5/05

and a solid support containing (i) from 80 to 99.5 mol % of magnesium dichloride substantially free from any product containing an Mg-C bond, and (ii) from 0.5 to 20 mol % of at least one organic electron-donor compound, D, free from labile hydrogen, the said solid support consisting of spherical particles having a mass-average diameter, Dm of 10 to 100 microns and a narrow particle size distribution such that the ratio of Dm to the number-average diameter, Dn, of the particles is less than 2.

(Compl. Specn. 26 pages; Drwng. sheet Nil.)

Ind. Cl. : B41B 25/00 180174

Int. Cl. : B41F 1/00, 1/08.

COMBINED ROTARY WEB-FED PRINTING MACHINE, ESPECIALLY FOR THE PRINTING OF SECURITIES.

Applicant : DE LA RUE GIORI S.A. OF A SWISS CO., OF 4 RUE DE LA PAIX, 1003-LAUSANNE, SWITZERLAND.

Inventors :

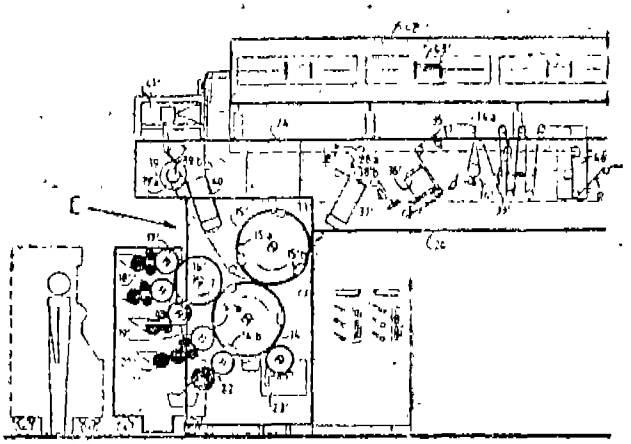
1. ALBRECHT JOSEF GERMANN
2. HANS BERNHARD BOLZA SCHUENEMANN
3. JOHANNES GEORG SCHAEDE
4. JOACHIM ALFRED HEINZ LAPP.

Application for Patent No. 796/Del/90 filed on date 8-8-1990.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, New Delhi-110 005.

15 Claims

A combined rotary web-fed printing machine with at least two print units (A, B) disposed in succession and with a transport device conveying the paper in the form of web (P) through the printing units and equipped with continuously driven draw-roller arrangements (27, 34, 34'), wherein the printing units (A, B), have respective cylinder (2, 3, 14, 15), having printing and impressions cylinders forming the printing nip, each cylinder having a plurality of sectors separated by cylinder pits wherein, in a transport direction, the transport device possesses, in front of the printing nip of each printing unit (A, B), a first paper web store (29; 37) and a following intermittently controllable first draw-roller unit (30, 38) and, after the printing nip of first draw-roller unit (A, B), an intermittently controllable second (32; 40); control means including a regulating and control system for said first and second draw-roller units; said control system having individually regulated drives for each said draw-roller units and means for intermittently controlling said draw-roller units for forward and backward movement of the web by said individually regulated drives for performing register and printing length correction, and wherein at least one of said continuously driven draw-roller arrangements (27, 34, 34'), is located respectively in front of the first paper-web store (29) of the first printing unit (A), between the second paper-web store (32) of the first printing unit and the first paper web store (37) of the second printing unit (B), and behind the second paper-web store (40) of the second printing unit to transport uniformaly the paper web in front of the first paper-web and between the two printing units (A, B), within a portion limited by the respective paper-web stores (32, 37)



(Compl. Specn. 33 pages; Drwng. 9 sheets).

Ind. Cl. : 154 AE XXXVII (1) 180175
203XXXVII(3)

Int. Cl. : B41B 25/00
B41F 1/00, 1/08.

DRAW-ROLLER UNIT FOR A WEB-FED PRINTING MACHINE.

Applicant : DE LA RUE GIORI S. A., A SWISS COMPANY, OF 4, RUE DE LA PAIX, 1003-LAUSANNE, SWITZERLAND.

Inventors :

1. ALBRECHT JOSEF GERMANN
2. JOHANNES GEORGE SCHAEDE
3. JOACHIM ALFRED HEINZ LAPP.

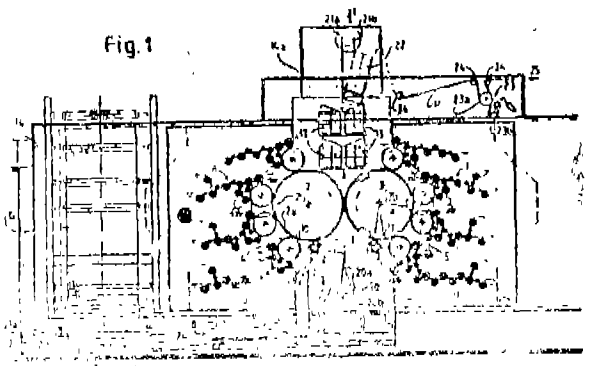
Application for Patent No. 799/Del/90 filed on date 8-8-1990.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, New Delhi-110 005.

15 Claims

Draw-roller unit for the transport of a paper web (P) in a web-fed printing machine, characterised in that the draw-roller (20, 21) unit has a single draw roller, (20b, 21b, 30, 30) said paper web (P) being looped along a predetermined circumferential portion of said single draw-roller, (20b, 21b, 30, 31) and in that there are means (37, 62, 62....) for generating an air-pressure effect along said predetermined circumferential portion, said air-pressure being generated only on said predetermined circumferential portion whereby the paper web is pressed against the surface of the draw roller (20b, 21b, 30, 30) at said predetermined circumferential portion, the remaining circumference of said draw being free of said air-pressure effect.

Fig.1



(Compl. Specn. 22 pages; Drwngs. 7 sheets.)

Ind Cl. : 32E 180176

Int. Cl.[4] : C08F, 236/10.

PROCESS FOR THE PREPARATION OF RANDOM OR BLOCK COPOLYMERS OF CONJUGATED DIENES AND VINYL AROMATIC COMPOUNDS.

Applicant : SHELL INTERNATIONAL RESEARCH MAATSCHAPPIJ B.V., A NETHERLANDS COMPANY OF CAREL VAN BYLANDTLAAN 30, 2596 HR THE HAGUE, THE NETHERLANDS.

Inventors :

1. HENDRIK VAN BALLEGOOIJEN
2. JOHANNES THEODORUS ANDREAS
3. JOSEPH PETER MARIE PETERS.

Application for Patent No. 813/Del/90 filed on 13-08-1990.

Convention date 16-8-1989/8918702.5/UK.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, New Delhi-110 005.

18 Claims

A process for the preparation of random copolymen of at least one conjugated diene and at least one vinyl aromatic compound comprising reacting the monimers with the aid of an initiator based on lithium in the presence of an essentially inert solvent or mixture of solvents of the kind described herein wherein said solvents (b) consists for at least 60 per cent by weight of cyclopentane and the heat of reaction is withdrawn by means of reflux cooling.

(Compl. Specn. 26 pages; Drwng. sheet Nil.)

Ind Cl. : 128G 180177

Int. Cl.[4] : A 61 M25/00

APPARATUS FOR THE PERIODIC OR CONTINUOUS DRAINAGE OF URINE.

Applicant : LEIF NILSSON, A SWEDISH CITIZEN, OF BLABARSUAGEN 1, S-260 40 VIKEN, SWEDEN.

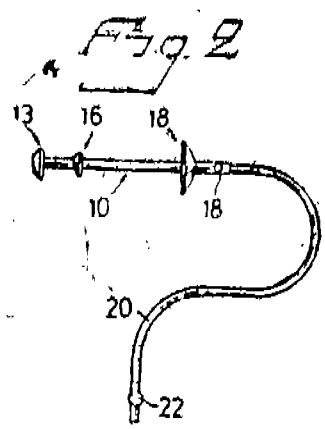
Inventor : LEIF NILSSON.

Application for Patent No. 826/Del/90 filed on 17-08-1990.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, New Delhi-110 005.

18 Claims

Apparatus for the periodic or continuous drainage of urine from the bladder of females, said apparatus comprising firstly a urine catheter tube consisting of an elongated, hollow, flexible so-called catheter tube (10) intended for insertion into the urethra of a female patient one open end (11) of the catheter tube (10) communicating with the bladder and therewith functioning as an inlet opening (11) for urine present in said bladder, other open end (12) of said cathater tube (10) functioning as an outlet opening for urine draining from said bladder, said catheter tube (10) having fixing means for maintaining said tube (10) within the urethra, and secondly a container (23) which is connected to the outlets opening of the catheter tube (10) and which is intended for collecting and temorarily storing urine draining from the bladder, said container (23) being provided in the region of said inlet (11) with valve means which permit urine to flow from the catheter tube (10) into the container (23) but prevent the flow of urine in the reverse direction, and the lower end of said container (23) being provided with means (28, 29) for emptying said container (23) of its contents, characterized in that said fixing means for the catheter tube (10) in the urethra is provided with a first compliant collar (13) which is located on the external surface of said tube (10) in the region of the opening (11) coacting with the bladder, said first compliant collar (13) being concentric with the longitudinal axis of said tube (10), said first collar (13) for sealingly abutting urethra wall, during use, said fixing means having a second compliant collar (18) which is located adjacent to or in the vicinity of the region of said outlet opening (12) of the catheter tube (10), said second compliant collar (18) in use being a restriction on the extent to which said tube (10) is inserted into the urethra; said urine collecting container (23) being divided into mutually communicating sections.



(Compl. Specn. 20 pages; Drwng 1 sheet.)

Ind. Cl. . 170A & 189 180178

Int. Cl.[4] : A61K-7/075.

HAIR CARE COMPOSITION

Applicant : THE PROCTER & GAMBLE COMPANY, A CORPORATION ORGANIZED AND EXISTING UNDER THE LAWS OF THE STATE OF OHIO, UNITED STATES OF AMERICA, OF ONE PROCTER & GAMBLE PLAZA, CINCINNATI, STATE OF OHIO, UNITED STATES OF AMERICA.

Inventors :

1. RAYMOND EDWARD BOLICH.
2. PETER MARTE TORGERSON.

Application for Patent No. 828/Del/90 filed on 20-08-1990.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, New Delhi-110 005.

9 Claims

A hair care composition comprising :

(a) from 0.1% to 10.0% of a copolymer, having a molecular weight of from 10,000 to 1,000,000, which has a vinyl polymeric backbone having grafted to it monovalent siloxane polymeric soieties, said copolymer comprising C monomers, A monomers and B monomers, and mixtures thereof, wherein;

A is at least one free radically polymerizable vinyl monomer such as herein described the amount by weight of a monomer, when used, being from 5% to 98% by weight of the total weight of all monomers in said copolymer;

B is at least one reinforcing monomer copolymerizable with A, the amount by weight of B monomer, when used, being up to 98% of the total weight of all monomers in said copolymer, said B monomer being selected from the group consisting of polar monomers and macromers; and

C is a polymeric monomer being from 0.1 to 30% by weight and having a molecular weight of from 1,000 to 50,000 and the general formula

$$X(Y)_n Si(R)_{3-m} (Z)_m$$ wherein

X is a vinyl group copolymerizable with the A and B monomers,

Y is a divalent linking group,

R is a hydrogen, lower alkyl, aryl or alkoxy,

Z is a monovalent silixane polymeric moiety having a number average molecular weight of at least 500, is essentially unreactive under copolymerization conditions, and is pendant from said vinyl polymeric back bone after polymerization,

n is 0 or 1,

m is an integer from 1 to 3.

(B) from 0.5% to 99.5% of a carrier such as herein described;

(C) and optionally other conventional ingredients to hair.

(Coml. Specn. 43 pages; Drwng. sheet Nil.)

Ind. Cl. : 70C-6 180179

Int. Cl.[4] : C25B 11/00

IMPROVED PROCESS FOR THE PREPARATION OF EPOXY ESTER RESINS USEFUL FOR ANODIC ELECTRODEPASITION OVER MILD STEEL OR ALUMINIUM.

Applicant : COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH RAFI MARG, NEW DELHI-110 001, INDIA, AN INDIAN REGISTERED BODY INCORPORATED UNDER THE REGISTRATION OF SOCIETIES ACT (ACT XXI OF 1860).

Inventors :

1. PAKKYARATH JAYAKRISHNAN.
2. SUBBIAH GURUVIAH.

Application for Patent No. 864/Del/90 filed on 30-08-1990.

Complete left after Provisional filed on 27-11-1991.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, New Delhi-110 005.

2 Claims

A process for the preparation of a epoxy ester resins useful for anodic electrodeposition over mild steel or aluminium which comprises refluxing 100—150 parts by weight of an epoxy resin having an epoxy equivalent of 450—900, 40—60 parts of butyl cellosolve, 10–30 parts of propylene glycol, 50–75 parts of linseed fatty acid and 10—20 parts of maleic anhydrie at a temperature in the range of 140—170°C up to 90 mir then cooling to room temperature.

(Prov. Specn. 5 pages; Drwng. sheet Nil.)

(Compl. Specn. 6 pages; Drwng. sheet Nil.)

Ind. Cl. : 206 1 E 180180

Int. Cl.[4] . H04B 9/00.

A SUBSCRIBER STATION FOR A MESSAGE TRANSMISSION INSTALLATION.

Applicant : SIEMENS-ALBIS AKTIENGESELLSCHAFT, A SWISS COMPANY, OF ALBISRIEDERS RASSE 243, CH-8047 ZIRICH, SWITZERLAND.

Inventors :

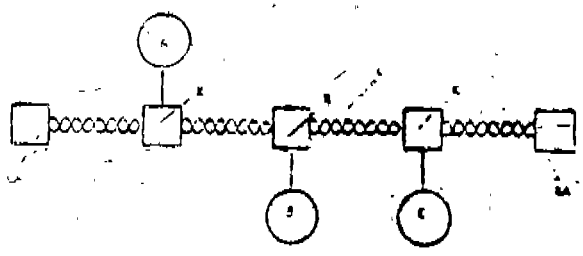
1. ALFRED GRAU.
2. MAX LODER.
3. HANSPETER KUPFER.

Application for Patent No. 875/Del/90 filed on 31-08-1990.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, New Delhi-110 005.

3 Claims

A subscriber station for a message transmission installation comprising a transmitter (S) a voice current circuit (MI) connected to said transmitter, the output of said voice current circuit (MI) being connected to the transmission path used and audio current circuit (HO) connected to the transmission path used by its input, a receiver connected to said audio current circuit (HO), charracterised in that an auxiliary receiver (ZE) is provided, the input of which is connected with the transmission path used and the output of which is connected to an adding member (SM) disposed between the voice current circuit (MI) and the input of the transmitter (S).



(Compl. Specn. 18 pages; Drwng. 5 sheet.)

Ind. Cl. : 144A & 144E6 180181

Int. Cl.[4] : C09D-5/14.

ANTIFOULING COATING COMPOSITION AND A PROCESS FOR ITS PREPARATION.

Applicant : COURTAULDS COATINGS LTD., A BRITISH COMPANY OF 18 HANOVER SQUARE, LONDON W1A 2BB, ENGLAND.

Inventors :

1. JULIAN EDWARD HUNTER
2. JAMES REID
3. DAVID EDWARD JOHN ARNOLD
4. GEORGE HAILS
5. KENNETH FORD BAXTER
6. ARDIAN FERGUSON ANDREWS
7. MICHAEL JOHN NUNN.

Application for Patent No. 924/Del/89 filed on 12-10-1989.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, New Delhi-110 005.

10 Claims

An antifouling coating composition for substrates such as ship's hull comprising 25—55% by volume on a dry basis of a pigment comprising a sparingly soluble pigment such as herein described to inhibt the settlement and growth of marine organisms and 45—75% by volume on a dry basis of a binder comprising an acid-functional film-forming polymer whose acid groups are blocked by hydrolysable blocking groups, the hydrlysable blocking groups being monoamine groups such as herein described which form organic-solvent-soluble amine salts of the polymer.

(Compl. Specn. 15 pages; Drwng. sheet Nil.)

Ind. Cl. : 156A DEFG 180182

Int. Cl.[6] : E03B 7/00, 11/00.

A DEVICE OR PUMP FOR LIFTING WATER

Applicant : MOHAMMAD SHAKIR QIDWAI, VIKAS ENGINEERING CORPORATION, MAUNI MANDIR, SULTANPUR (U.P.).

Inventor : MOHAMMAD SHAKIR QIDWAI

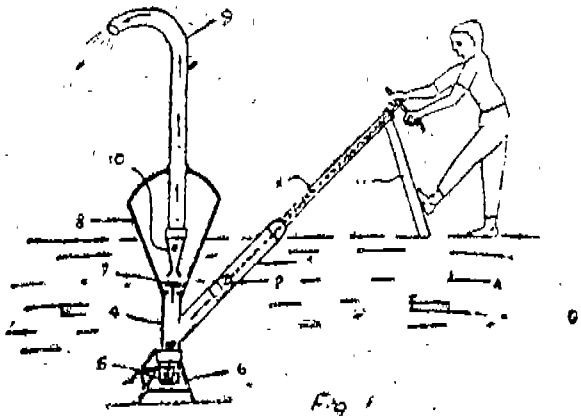
Application for Patent No. 908/Del/90 filed on 11-09-1990.

Complete left after Provisional filed on 11-12-1991.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, New Delhi-110 005.

4 Claims

A pump for lifting water from the tanks, canals, lakes and wells comprising a cylinder (1) having a piston (2) disposed therein characterised in that said cylinder (1) being secured with a main pipe (4) at an inclination and in flow communication therewith, a check valve having a one way valve disposed therein being provided at the lower end of the main pipe (4), an air vessel (8) being secured in flow communication at the upper end of said main pipe (4), a delivery pipe (9) being disposed within said air vessel (8) for getting water output, and a stand (6) being provided towards the lower end of said main pipe (4) so as to put the water lifting pump in the proper position during the use of said pump.



(Prov. Specn. 5 pages; Drwng. sheet Nil.)
(Compl. Specn. 8 pages; Drwng. 1 sheet.)

Ind. Cl. : 140 B3 180183

Int. Cl.[6] : C02 F 5/00.

A PROCESS FOR THE MANUFACTURE OF A SOLID MATERIAL BODY CONSTITUTED BY A METAL ALLOY COMPOSITION.

Applicant : LUIS CARLOS GOMEZ, A U.S. CITIZEN OF 2033W 73RD, ST HIALEAH, FLORIDA 33016, UNITED STATES OF AMERICA

Inventor : GOMEZ LUIS CARLOS

Kind of Application : Complete.

Application for Patent No. 911/Del/90 filed on date 11-9-1990.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, New Delhi-110 005.

4 Claims

A process for the manufacture of a solid material body constituted by a metal alloy composition, useful for the purification of fluids such as water, aqueous fluids and liquid fuels, comprising the steps of :

(a) heating together in a suitable container to form a molten mass at a temperature of from 1900 to 2200F, from 50 to 60% of copper, from 1.3 to 5% of tin, from 7 to 15% of manganese and from 0.005 to 2.5 of aluminum, after the molten mass has been obtained.

(b) heating then the container to a temperature within the range of 2700 to 2800F;

(c) adding to the molten mass from 0.5 to 8% of nickel;

(d) heating then the container in the range of 3200 to 3400F;

(e) adding to the molten mass from 20 to 28% of zinc and after a sufficient time of at least 5 minutes: and

(f) pouring the molten mass into a mold and allowing said molten mass to solidity to obtain said solid material body.

Ref. No. : Nil.

Agent : Remfry and Sagar.

(Compl. Specn. 20 pages; Drwng. sheet Nil.)

Ind. Cl. : 36 AI 180184

Int. Cl.[6] : F04B 9/00.

A HYDRAULIC DEVICE SUCH AS A MOTOR OR PUMP.

Applicant : POCLAIN HYDRAULICS, A CORPORATION ORGANISED UNDER THE LAWS OF FRANCE, OF B. P. NO. 12, 60410 VERBERIE, FRANCE.

Inventors :

1. GILLES LEMAIRE.
2. DOUGLAS BESSON.

Kind of Application : Complete.

Application for Patent No. 913/Del/90 filed on 11-09-1990.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, New Delhi-110 005.

13 Claims

A hydraulic device such as a motor or pump comprising :

(i) a cam (3);

(ii) a cylinder-block (8) rotatably mounted with respect to said cam (3);

(iii) a plurality of cylinders (10) provided in said cylinder-block (8);

(iv) a plurality of pistons (11) each mounted to slide inside a cylinder (10) along an axis of slide of piston (11);

(v) a plurality of rollers (23) for rolling abutment of the pistons (11) on the cam (3), each of said rollers (23) being mounted on a piston (11) and rotatable about a roller axis perpendicular to the axis of slide of said piston (11) by means of a bearing (24) for rotation, defined axially by two transverse (27) faces, and being capable of penetrating at least partially, inside the cylinder (10) in which said piston (11) is slidably mounted, the end of the piston (11) in which is formed the bearing (24) for rotation of the roller (23), comprising two recesses (28) each corresponding at least to the

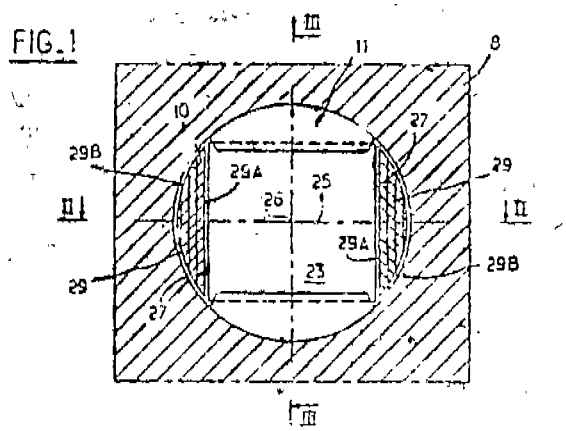
space included between at least the cylindrical surface of the roller (23), the surface of the cylinder (10) and one of the transverse (27) faces of the roller, said space being open in the upper part of the piston (11) at least in the zone where the cylindrical surface of the roller (23) projects from the piston (11); and characterized in that

(vi) two wedging pieces (29) for each roller (23) are provided each disposed in one of said two recesses (28) between the corresponding end of said roller (23) and the inner face of said cylinder (10) on which said wedging (29) pieces abut, in order to ensure axial holding in position of the roller (23) parallel to its axis of rotation, such that along the axis of the piston, (11) at least one of the two wedging (29) pieces extends up to the lower part of the recess (28), so as, in the sense of extension of the piston (11) out of the cylindr (10), to be displaceable with said piston.

Ref. : FR-582058.

Agent : REMFRY & SAGAR.

FIG. 1



(Compl. Specn. 22 pages; Drwngs. 9 sheets.)

Ind. Cl. : 128K 180185

Int. Cl.[4] : A61M 32/00.

A HYDROCEPHALAUS SHUNT VALVE.

Applicant : SREE CHITRA TIRUNAL INSTITUTE FOR MEDICAL SCIENCES & TECHNOLOGY, SATELMOND PALACE, TRIVANDRUM-695012, INDIA, AN INDIAN INSTITUTE.

Inventors :

1. DAMODAR ROUT, INDIA.
2. GOBICHETTIPALAYAM SUBBARATNAM BHUVANESHWAR, INDIA.
3. SATYENDRA NATH PAL, INDIA.
4. MURALEEDHARAN CHIRATHODY VAYALAPPIL, INDIA.
5. MATHALLIAPPAN MURALITHARAN, INDIA.

Kind of Application . Provisional Complete.

Application for Patent No. 924/Del/90 filed on 18-09-1990.

Complete left after Provisional filed on 19-11-1991.

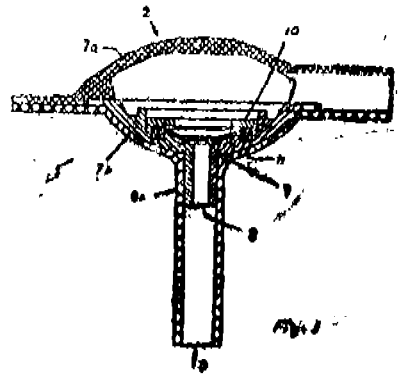
Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, New Delhi-110 005.

5 Claims

A hydrocephalus shunt valve comprising a valve housing having an inlet to connect a proximal or ventricular catheter thereto and a discharge end to connect a distal cathor thereto characterised in that said valve housing comprises an upper portion and a lower portion secured with each other, said lower portion being extended into a tube for connecting said housing to said proximal catheter, a valve base having a diaphragm and needle shield therewith being provided within said lower portion to allow unidirectional flow of cerebrospinal fluid.

Ref. : US-4332255, 4636194.

Agent : L. S. DAVAR & CO.



(Prov. Specn. 7 pages; Drwng. sheet Nil.)

(Compl. Specn. 11 pages; Drwngs. 2 shets.)

Ind. Cl. : 9E 180186.

Int. Cl.[4] : C 22 C 38/50.

A PROCESS FOR MANUFACTURING TITANIUM ALLOY HAVING IMPROVED FATIGUE CRACK GROWTH RESISTANCE.

Applicant : THE CHIEF CONTROLLER RESEARCH & DEVELOPMENT, MINISTRY OF DEFENCE, GOVT. OF INDIA, NEW DELHI, INDIA.

Inventor : ARVIND BHARTI.
VIKAS KUMAR SAXENA.

Application for Patent No. 929/Del/90 filed on date 21-9-90.

Appropriate Office for Opposition Proceedings (Rule 4 Patent Rules 1972) Patent Office Branch New Delhi-110 005.

(Claims 4)

A process for manufacturing titanium alloys and other alloys as herein described having improved fatigue crack growth resistance comprising sand blasting the alloy component with alumine sand, moving said alloy under focuses laser beam at an inclination of 10–15° with respect to laser beam for determining the exact position and depth of focal spot of laser beam such as Co laser beam, selecting the scanning-speed for the available power of the laser beam for making a single laser trial on said sheet of component of alloy keeping the local spot upto 200um above or below the glazing surface, measuring the width of the trail so as to adjust job manupulator for providing 5-50% overlaping in successive seans, covering the saind plasted surface of the component by successive scanning under a shield of any inert gas such as argon at a pressure of 20–48 PSI and keeping the distance between the nozzel and the component or work piece between 10 to 25mm.

(Complete specification 12 pages Drawing Sheet 5).

Ind. Cl. : 141D 180187.

Int Cl.[6] : B03D 1/02.

A PROCESS FOR THE PRODUCTION OF NICKLE CONCENTRATE FROM NICKEL BEARING LATERITIC OVERBURDEN MATERIAL OF CHROMITE MINES.

Applicant : COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, RAFI MARG, NEW DELHI-110 001, INDIA, AN INDIAN REGISTERED BODY INCORPORATED UNDER THE REGISTRATION OF SOCIETIES ACT (ACT XXI OF 1860).

Inventors : GEDELA VISWESWARA RAO.
TONANGI GOURI CHARAN.

Application for Patent No. 934/Del/90 filed on 21-9-1990.

Appropriate Office for Opposition Proceedings (Rule 4 Patent Rules 1972) Patent Office Branch New Delhi-110 005.

(Claims 5)

A process for the production of nickel concentrate from nickel bearing lateritic overburden material of chromite mines which comprises classifying the overburden to —0.05 mm and —40mm +0.05 mm fraction, grinding the —40 mm +0.05mm fraction to below 0.20 mm fraction, treating the —0.20mm fraction as well as the —0.05mm fraction with anionic flotation reagents selected from petroleum sulfonates, sulfates, alkyl sulfosuccinate or sodium salts or carboxylic acid containing sulphonate or sulfo group at a pH 2 to 5.5 in presence of sodium silicate or polyphosphates as dispersant agent and carboxy methyl hydroxy ethyl cellulose as despresent to float the nickel fraction and if desired, cleaning the resulting rougher concentrate by the conventional methods.

(Complete specification 11 pages Drawing Sheet Nil).

Ind. Cl. : 35E 180188.

Int. Cl. : C04B 35/10, 35/48.

A PROCESS FOR THE PREPARATION OF ALUMINA ZIRCON REFACTORIES.

Applicant : AJOY KUMAR MULLICK, SHIBAN JI RAINA, SATISH CHANDRA SHARMA, SANJEEV AGARWAL, SHRI GOPAL SURRINDER KUMAR HANDOO, SUSHANTA CHATTERJEE (INDIAN).
Kind of Application : Provisional Complete.

Application for Patent No. 947/Del/90 filed on 25-9-90 Complete left after provisional filed on 26-12-91.

Appropriate Office for Opposition Proceedings (Rule 4 Patent Rules 1972) Patent Office Branch New Delhi-110 005.

(Claims 6)

A Process for the preparation of alumina-zircon refractories comprising mixing 74—76 parts by weight of dead burnt bauxite 5—10 parts weight of calcined bauxite, 10—15 parts by weight of plastic clay, 10—15 parts by weight of zircon sand and 0.2—1.2% by weight of additive such as high grade lime stone, magnesite or dolomite with each other in the presence of water, subjecting said mix to the step of shapping at a pressure of 1000 to 1200 Kg/cm^2 and drying and firing said refractories at a temperature of 1400°—1500°C in order to prepare said aluminazircon refractories.

Ref. : Nil.

Agent : L. S. Davar.

(Provisional Specification : 4 pages; Drawing : Nil)
(Complete specification 6 pages Drawing Nil).

Int. Cl. : 170B XLIII (4) 180189.

Int. Cl. : C11D 3/00.

A COMPOSITION IN THE FORM OF GRANULES, CONTAINING POLYMERS, USEFUL AS A COMPONENT IN DETERGENT FORMULATIONS AND A PROCESS FOR THE PREPRARATION THEREOF.

Applicant : ROHM AND HASS COMPANY, A CORPORATION ORGANISED UNDER THE LAWS OF THE STATE OF DELAWARE, UNITED STATES OF AMERICA, OF INDEPENDENCE MALL WEST, PHILADELPHIA, PENNSYLVANIA 19105, UNITED STATES OF AMERICA.

Inventor : MAURIZIO PASTORI.
PAOLO ZINI.

Application for Patent No. 960/Del/90 filed on date 1-10-90 Convention date 2-10-89 number 89221/9 U.K.

Appropriate Office for Opposition Proceedings (Rule 4 Patent Rules 1972) Patent Office Branch New Delhi-110 005.

(Claims 11)

A composition in form of granules containing polymer such as described herein, useful as a component in detergent formulations, summit granule comprising 20% by weight of an inorganic component which comprises at least one of zeolite, clay sulphate carbonate, phosphate, silicate, percarbonate or perborate, and 10% to 80% by weight of a polycarboxylated polymer such as herein before described, the amount of said polymer being at least 20% by weight when said inorganic component is zeolite or clay, and the balance, comprising conventional detergent additives, wherein the granule size is such that less than 50% by weight passes through 100 US (mesh size 0.15 mm), and the bulk density of the granules is 700 g/l. to 1200 g/l. is preffered, particularly over 900 g/l.

(Complete Specification 19 pages Drawing 2 Sheets)

Ind. Cl. : 35E 180190.

Int. Cl. : C04B 37/00.

CERAMIC WELDING PROCESS FOR FORMING A CERAMIC WELD MASS ON A SUBSTRATE AND LANCE FOR USE IN SUCH PROCESS.

Applicant : GLAVERBEL, A BELGIAN COMPANY, OF CHAUSSEE DE LA HULPE, 166, B-1170 BRUSSELS, BELGIUM.

Inventor : PIERRE ROBYN.

ALEXANDRE ZIVKOVIC.
LEON-PHILIPPE MOITEL.

Application for Patent No. 968/D/90 filed on date 4-10-90

Appropriate Office for Opposition Proceedings (Rule 4 Patent Rules 1972) Patent Office Branch New Delhi-110 005.

(Claims 20)

A ceramic welding process for the forming a ceramic weld mass on a substrate such as a refractory wall in which a ceramic welding powder comprising a mixture of refractory particles of the kind such as herein described and particles of a fuel matrail of the kind such as herein described which is capable of being oxidized to form a refractory oxide is projected against said substrate in one or more strams of carrier gas which contains at least sufficient oxygen for substantially complete oxidation of the fuel particles, whereby sufficient heat is released for at least surface melting of the projected refractory particles and said ceramic weld mass is formed against said subs rate under the heat of oxidation of the fuel particles, characterised in that at least one additional stream of gas is projected against said substrate so as to form a substantially continuous gas curtain surronding said carrier gas stream.

A lance for carrying out the ceramic weld process as claimed is any preceding claim which comprises an outlet for the discharge of a ceramic welding powder in a carrier gas along a discharge path towards a surface for the performance of a ceramic welding process, characterised in that such lance comprises a second outlet or group of second outlet or outlet group being spaced both axially and radially in relation to the

powder outlet that gas can be discharged from said second outlet or outlet group so as to foom a substantially continuous curtain surrounding and generally parallel to the powder discharge path.

(Complete Specification 31 Pages Drawing 1 Sheet).

Ind. Cl. : 48 D$_2$ 180191

Int. Cl.[4] : H 02 G 1/00.

AN APPARATUS FOR DEPLOYMENT OF AN OPTICAL CABLE.

Applicant : NORTHERN TELECOM LIMITED, A CANADIAN CORPORATION HAVING ITS REGISTERED OFFICE AT WORLD TRADE CENTRE OF MONTREAL, 380 ST. ANTOINE STREET WEST, 8TH FLOOR, MONTREAL, QUEBEC 3Y4, CANADA.

Inventors : DAVID LANCELOT WALTERS, MARTIN HEALY, ERNEST CHARLES MARLOW & DAVID FREDERICK HARRISON.

Application for Patent No. 975/Del/90 filed on date 05-10-90.

Convention Data : 07.10-89/8922643.5/GB.

Appropriate Office for Opposition Proceedings (Rule 4 Patent Rules 1972) Patent Office Branch New Delhi-110 005.

(Claims 2)

An apparatus for deployment of an optical cable (1) into a duct (2) or pipeline (2) along which a liquid is flowing, the apparatus comprising a drum (3) for storing the cable (1), deployment (2A, 2B, 4) means for drawing the cable (1) from the drum (3) and for deploying the cable (1) into the pipeline (2), a controller (12) associated with the deployment (2A, 2B, 4) means for controlling the rate of said deployment and strain determining (6, 11, 10, 7, 9) means coupled to the cable (1), for optically measuring strain in the cable (1) during deployment by monitoring an optical signal in a fibre of the cable (1), said strain (6, 7, 10, 11, 9) determining means having an outputcoupled to the controller (12) whereby to control the rate of deployment of the cable (1) according to the strain therein said strain determining (6, 7, 10, 11) means preferably comprising a rotary (6) joint for coupling to said drum (3), an optical Y coupler (11) for coupling to a fibre of the cable (1) via the rotary (6) joint, means (7) for feeding an optical signal into said cable (1) fibre via one of the arms of said Y coupler (11), means for detecting (10) a received signal from the cable (1) via a reflective end (5) termination at the leading end of the cable (1) and via the other arm of the Y coupler (11), and a vector voltmeter (9) for determining the phase difference between the transmitted and received signals whereby, to determine the strain in the cable (1), the rate of deployment being thereby controlled by said controller.

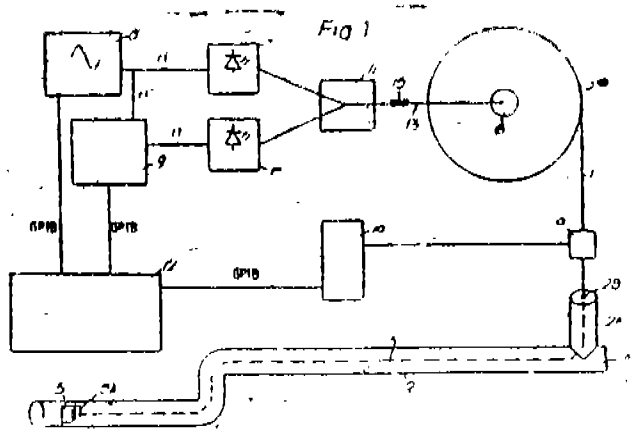


Fig 1

(Complete Specification 10 Pages Drawing 2 Sheets).

Ind. Cl.: 140B (1) 180192

Int. Cl.[4] : C10M, 145/02.

LUBRICANT OIL COMPOSITIONS.

Applicant : MITSUI PETROCHEMICAL INDUSTRIES, LTD., A JAPNESE COMPANY, OF 2-5 KASUMIGASEKI 3-CHOME CHIYODA-KU, TOKYO 100, JAPAN.

Inventors : KINYA MIZUI
YOSHIHISA KASO
TETSUO HAYASHI
MASAHIDE TANAKA.

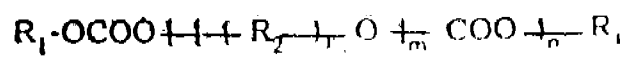
Application for Patent No. 978/Del/90 filed on 8-10-1990.

Appropriate Office for Opposition Proceedings (Rule 4 Patent Rules 1972) Patent Office Branch New Delhi-110 005.

(Claims 3)

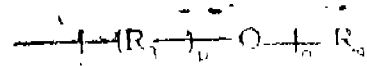
A lubricant oil composition comprising;

a polyalkylene glycol polycarbonate represented by the general formula (I).



wherein R_1 is each independently a hydrocarbon group having not greater than 20 carbon atoms selected from an aliphatic group, an alicyclic group, an aromatic group or an aromatic-substituted aliphatic group, and

an alkyloxyalkylene group represented by the general formula :



(R_3 is an alkylene group having 2 to 20 carbon atoms. R_4 is an aliphatic group, an alicyclic group or an aromatic group each having not greater than 20 carbon atoms, p is an integer of 1 to 100, and q is an integer of 1 to 10),

R_2 is an alkylene group having 2 to 20 carbon atoms, l is an integer of 1 to 100, m is an integer of 1 to 10 and n is an integer of 1 to 100; and

a Freon nondestructive to the ozone layer, wherein the weight ratio of said polyalkylene glycol polycarbonate to said freon is in the range of from 70/30 to 3/97.

(Comp. Speen. 93 Pages Drg. Sheet 5 Pages)

Ind. Cl : 32 E 180193

Int. Cl.[4] : C 08 F 291/05.

AN IMPROVED PROCESS FOR THE PREPARATION OF SEMI-CONDUCTING POLYPYRROLE FILM.

Applicant : COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH RAFI MARG, NEW DELHI-110 001, INDIA AN INDIAN REGISTERED BODY INCORPORATED UNDER THE REGISTRATION OF SOCIETIES ACT (ACT XXI OF 1860)

Inventors : SETHURAMAN PETCHIMANI
VENKATA SUBRAMANIAN KRISHNAN.

Application for Patent No. 1015/Del/90 filed on date 16-10-90.

Complete Left after provisional specification on 07-08-91.

Appropriate Office for Opposition Proceedings (Rule 4, Patent Rules 1972) Patent Office Branch New Delhi-110 005.

(Claims 7)

An improved process for the preparation of semi-conducting polypyrrole film which comprises forming a film of a conventional polymer such as herein described by known methods, impregnating the film with 0.5 to 1.5 M photosensitive pyrrole monomer together with a conventional dopant in presence of

solvent, exposing the impregnated film to sunlight, for a period ranging from 12 to 18 hrs. washing the film with water and thereafter with an organic solvent such as herein described and drying under dynamic vacuum.

PROVISIONAL SPECIFICATION 5 Pages—Drawing Nil

(Comp. Specn. 8 Pages Drgs. Nil).

Int. Cl.[4] : C 07 C 67/00. 180194

Ind. Cl. : 32 F 3b

A PROCESS FOR THE PREPARATION OF Z-3-DODECENYL-E-2'-BUTENOATE.

Applicant : COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, RAFI MARG, NEW DELHI-110 001, INDIA, AN INDIAN REGISTERED BODY INCORPORATED UNDER THE REGISTRATION OF SOCIETIES ACT (ACT XXI OF 1860).

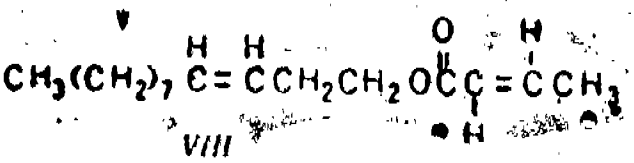
Inventor : NEELAKANDHA SAVITHRI MANI, IN
MANGLAM SIVASANKARAN NAIR, IN

Kind of Application : Complete.

Application for Patent No. 1023/Del/90 filed on date 16-10-90.

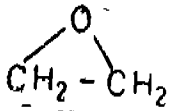
(Claims 4)

An improved process for the preparation of Z-3-dodecenyl-E-2-butenoate of the formula VIII.



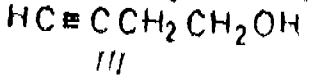
VIII

which comprises of (a) reacting monolithium acetylide of the formula I, with ethylene oxide of the formula II.



II

in liquid ammonia to form 3-butyn-1-ol of the formula III,



III

(b) chemoselectively alkylating the 3-butyn-1ol of the formula III with octyl bromide of the formula IV,

$$+RBr$$

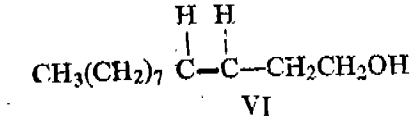
IV

where R represents n-octyl using lithium/sodium amide in liquid amonia to get the compound of formula (v), (c) partial-by hydrogenating the said 3-dodecyn-1ol of the formula V,

$$RC \equiv CCH_2CH_2OH$$

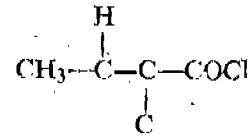
V

where R has the meaning given above to Z-3 dodecen-1-ol of the formula VI,



VI

using 5% palladium on a support of either calcium carbonate or barium-sulfate as catalyst and (d) esterifying the aforementioned Z-3-dodecen-1-ol with crotonyl chloride of the formula VII,



in presence of pyridine in methylene chloride at 0°c to get Z-3-dodecenyl E-2-butenoate of the formula VIII.

Reference : Nil.

Agent : Council of Scientific and Industrial Research, b

(Comp Specn. 12 Pages Drg. Sheets—1)

Int. Cl.[4] : C 07 C, 15/107. 180195

Ind. Cl. : 32 B.

AN IMPROVED PROCESS FOR THE PREPARATION OF LINEAR ALKYL BENZENES.

Applicant : COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, RAFI MARG, NEW DELHI-11 001, INDIA, AN INDIAN REGISTERED BODY INCORPORATED UNDER THE REGISTRATION OF SOCIETIES ACT (ACT XXI OF 1860).

Inventor : ABDUL RAKEEB ABDUL SUBHAN DESHMUKH, VIKAS KALYAN RAO GUMASTE, VASUDEO PANDURANG SHIRALKAR, BHAL CHANDRA VISHWANATH BAPAT.

Application for Patent No. 1024/Del/90 filed on date 16-10-90.

Appropriate Office for Opposition Proceedings (Rule 4 Patent Rules, 1972) Patent Office Branch, New Delhi-110 005.

(6 Claims)

An improved process for the preparation of linear alkyl benzenes wherein the linear alkyl group is a long linear aliphatic chain having a total number of carbon atoms exceeding 5 which comprises contacting a mixtures of benzene and corresponding long chain olefin compound at a temperature in the range of 80 to 250°C and pressure in the range of 1 to 30 bars with a catalyst consisting of a mixture of a crystalline alumino silicate large pore zeolites rare earth oxide and optionally a binder for 1 to 24 hours, recovering the linear alkyl benzenes formed, by removing the unreacted benzene by conventional methods and recyling the removed benzene.

(Com. Specn. 12 Pages Drg. Sheets Nil).

Ind. Cl. : 40 B 180196

Int. Cl.[4] : B 01 J 21/16

A PROCESS FOR THE PREPARATION OF POROUS CRYSTALLINE VANADIUM TITANIUM SILICATE HAVING A SILICALITE-1 STRUCTURE.

Applicant : COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH RAFI MARG, NEW DELHI-110001, INDIA AN INDIAN REGISTERED BODY INCORPORATED UNDER THE REGISTRATION OF SOCIETIES ACT (ACT XXI OF 1860).

Inventors : ARUMUGAMANGALAM VENKATARAMAN RAMSWAMY, POLADI RAJA HARIPRASAD RAO, APPADURAI THANGARAJ.

Kind of Application : Complete.

Application for Patent No. : 1025/Del/90 filed on date 16-10-90.

Appropriate office for opposition proceedings (Rule 4 Patent Rules, 1972), Patent Office Branch, New Delhi-110003.

7 Claims

A process for the preparation of porous, crystalline vanadium-titanium silicate having a silicalite-1 structure and having the formula :

x VO_2 , y TiO_2 , (1-x-y) SiO_2

wherein x is from 0.001 to 0.05 and y is from 0.001 to 0.05 and characterised by an x-ray diffraction pattern as herein described, an infrared absorption spectral data as herein described and an ESR spectrum as herein described, which comprises forming a gel by mixing a source of (i) silicon oxide (ii) a nitrogen containing organic base having the formula R_1N, where R represents propyl group (iii) vanadium (iv) titanium oxide followed by an alcohol having formula R1OH, where R1 is an alkkyl group having 2,5 c-atom, gen and 0.001-0.05 VO_2 : 0.001-0.05 TiO_2 : 0.900-0.998 SiO_2 : 0.1-10 R_1N : 1.0-5.0 R_1OH : 10-200 H_2O, heating the resultant gel at autogeneous pressure and at a temperatue between 100° and 200°C for 1—5 days, filtering, washing, drying and calcining the resultant porous crystalline material at a temperature in the range of 400—550°C to obtain the desired product.

(Complete Specification : 16 Pages;; Drawing Sheets : Nil)

Ind. Cl. : 32 E 180197

Int. Cl. : C 08 J, 9/06

AN IMPROVED PROCESS FOR PREPARING A SYNTHETIC RESIN FOAM.

Applicants : KANEGAFUCHI KAGAKU KOGYO KABUSHIKI KAISHA, 2—4, 3-CHOME, NAKANOSHIMA, KITA-KU, OSAKA, JAPAN. A JAPANESE CORPORATION.

Inventors : SHIGERU MOTANI AND TADAYUKI AITO.

Application for Patent No : 1040/Del/90 filed on 19-10-90.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, New Delhi-110005.

9 Claims

An improved process for preparing a extruded synthetic resin foam composed of cells having substantially two sizes, one of the sizes being at most 0.3mm and the other size being 0.4mm to 1mm, comprising the steps of :

forming a mixture of the synthetic resin, a water absorbent high molecular compound a cell controlling agent as herein defined and if desired a phendic antioxidant of the kind such as herein described introducing the mixture into an extruder.

kneading and melting the resulting mixture with heating incorporating water into the mixture before or after adding a volatile type foaming agent as herein described under a predetermined pressure and

extruding the mixture into a lower pressure space out the extruder to form a foam.

(Complete Specification : 31 Pages; Drawing : 2 Sheets)

Ind. Cl. : 92 C 180198

Int. Cl. : B 02 B, 3/02

GRAIN HUSKING AND POLISHING MACHINE.

Applicant : FELIPE SACETE GRACES, AV. ANODE JUAREZ NO. 198, COL. GRANJAS SAN ANTONIO, 09070, MEXICO, D.F.

Inventor : FELIPE SACETE GRACES.

Aplication Office for Patent No. : 1042/Del/90 filed on 19-10-90.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, New Delhi-110005.

15 Claims

An air-swept grain husking and/or polishing machine comprising a housing defining a substantially cylindrical chamber, a hollow shaft arranged substantially concentrically for rotation within the chamber and having an air inlet means for permitting a stream of air to be drawn into the hollow space of the shaft, a treatment rotor mounted on the hollow shaft and a screen assembly surrounding the rotor, the screen assembly comprising a plurality of screen sections and a corresponding plurality of abrading sections the rotor and screen defining a treatment chamber to be supplied with air from the hollow space; means for feeding grain through the treatment chamber; outlet means for the treated grain; and exhaust means for the particle-laden air from the treatment chamber; and provided with an eccentricity adjusting mechanism for moving the screen sideways as a unit, with respect to the hollow shaft and the rotor.

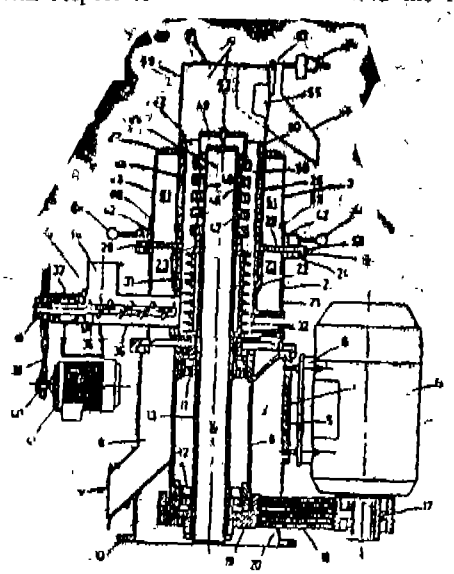


FIG 1

(Complete Specification : 37 Pages; Drawings : 6 Sheets)

Ind. Cl. : 123 180199

Int. Cl. : C 07 C 126/073

"PROCESS FOR THE PREPARATION OF PURE, UNSYMMETRICALLY DISUBSTITUTED UREAS."

Applicant : AGRO-CHEMIE AGRARCHEMIKALIEN GESELLSCHAFT m.b.h., OF ST. PETER STRASSE 25, A-4021 LINZ, AUSTRIA.

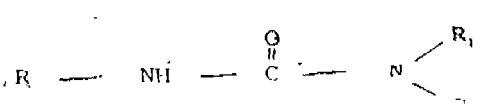
Inventors : RUDOLF HELMUT WORTHER HORST KORNTNER, EGMONT AUER, KURT THONHOFER.

Application for Patent No. : 1044/Del/90 filed on 19-10-1990.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch New Delhi 110005.

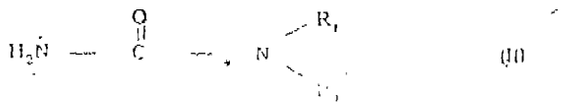
6 Claims

A process for the preparation of pure, unsymmetrically disubstituted ureas of the general formula (I)



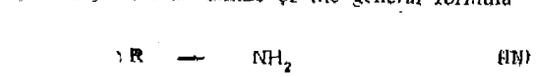
in which R denotes a phenyl radical which is unsubstituted, or monosubstituted or polysubstituted by halogen atoms or

alkyl, alkoxy, aryloxy or trifluoromethyl groups, an oxazolyl, isoxazolyl, thiazolyl, isothiazolyl, benzoxazoly or benzothiazolyl radical which is unsubstituted ,or monosubstituted or polysubstituted by halogen atoms or alkyl, alkoxy or trifluoromethyl groups and R_1 and R_2 independently of one another denote a hydrogen atom or an alkyl group, where R_1 and R_2 are not simultaneously hydrogen or R_1 and R_2 together denote a butylene or pentylene group, comprising reacting in a diluent of the kind such as hereinbefore described an N-alkyl- or N, N-dialkylurea of the general formula.



(II)

in which R_1 and R_2 have the abovementioned meaning and optionally with an amine of the general formula :



(III)

in which R has the abovementioned meaning, in the presence of an excess of an amine of the general formula :



(IV)

in which R_1 and R_2 in each case have the same meaning as in the N-alkyl- or N, N-dialkylurea employed of the general formula II by subsequently heating the reaction mixture to a temperature from 130°C to 250°C and employing per mole of the N-alkyl- or N, N-dialkylurea of the general formula II 0.5 to 0.7 mole or the amine of the general formula III and 2 to 15 mole of the amine of the general formula IV and isolating the reaction product having the general formula I in a customary manner.

(Complete Specification : 19 Pages; Drawing Sheet : Nil)

Ind. Cl. : 167 C 180200

Int. Cl.[4] : B 02 C 23/08

AN IMPROVED GRIT SEPARATOR.

Applicant : NATIONAL COUNCIL FOR CEMENT AND BUILDING MATERIALS OF M-10 SOUTH EXTENSION, PART II, RING ROAD NEW DELHI-110049. INDIA, REGISTERED UNDER THE SOCIETIES ACT.

Inventor : AJOY KUMAR MULLICK.

Application for Patent No. : 1055/Del/90 filed on 24-10-90.

Complete Left After Provisional Specification on 11-10-91.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972). Patent Office Branch, New Delhi-110005.

5 Claims

An improved grit separator comprising :

(a) an outer cone having an inlet for introduction of the feed alongwith air provided for the primary classification;

(b) an inner cone disposed within said outer cone in flow communication thereof and having a first outlet at the upper end for discharge of fines and air;

(c) a second outlet being provided at the lower end of said a inner cone for the discharge of tailings characterised in that;

(d) means being provided near bottom end of said inner cone for effecting a secondary classification of the tailings, said means comprises a separator chamber having top cover plate spaced from a bottom cover plate, an outer circular plate spaced from an inner circular plate being provided between said top and bottom cover plates, said separated chamber being provided so as to be connected to a source of air.

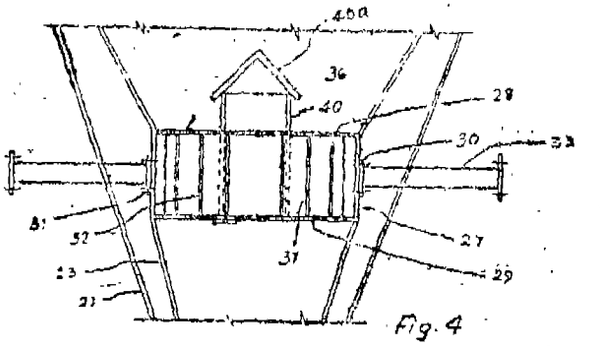


Fig. 4

(Provisional Specification : 5 Pages; Drawings : Nil)
(Complete Specification : 12 Pages; Drawings : 2 Sheets)

Ind. Cl. : 98E, 98G 180201

Int. Cl.[4] : H 05 H 1/00

"A PLASMA ARC HEATER."

Applicant : VIDYARDHI NANDURI, AN INDIAN NATIONAL OF 16/8, EAST PATEL NAGAR, NEW DELHI-110008.

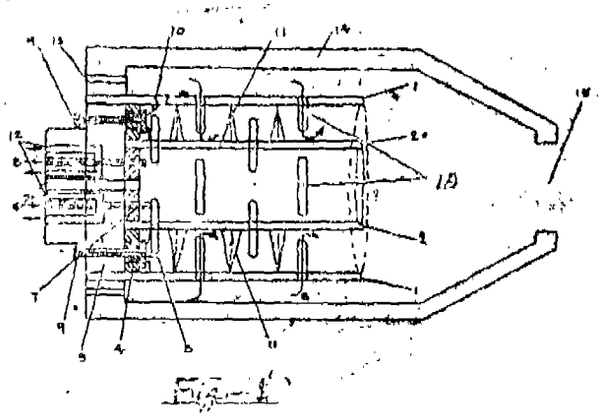
Inventors : VIDYARDHI NANDURI.

Application for Patent No. : 910/Del/90 filed on 11-9-1990.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972). Patent Office Branch, New Delhi-110005.

4 Claims

A plasma arc heater comprising a chamber having a plurality of electrodes in the form of a hollow tube disposed therein at a spaced relationship and being secured to an insulated support, a plurality of circumferential slots being provided along the length of said electrode in coaxial relationship with the other electrode, a trigger electrode secured to said insulated support being provided in the co-axial space between said electrodes for initiating plasma between said trigger electrode and one of the said electrode, ports being provided in said insulated support for providing gas or air in said co-axial space for cooling said electrodes.



(Complete Specification : 12 Pages; Drawing : 2 Sheets)

Ind. Cl. : 187 DFH 180202

Int. Cl.[4] : H 04 B 1/00, H 04 K 1/00

"ENTRANCE TELEPHONE SYSTEM."

Applicant : ANDERS EDVARD TRELL, A SWEDISH CITIZEN OF HOGALIDSGTAN 27, S-117 30 STOCKHOLM, SWEDEN.

Inventor : ANDERS EDVARD TRELL.

Application for Patent No. : 1062/Del/90 filed on 26-10-1990.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, New Delhi-110005.

10 Claims

An entrance telephone system for use with a public subscriber telephone network which comprises a programmable number discriminator connected to said public subscriber telephone network for controlling number dialling, an ID signaling circuit connected to said number discriminator for sending specific ID signals to the telephone network during a first time period after completion of a switching operation, one or more reply sets connected to said telephone network for receiving said specific ID signals during said first time period, an entrance lock connected to said number discriminator for locking or unlocking with a code function, an entrance set connected to said number discriminator for integrating said code lock function, said telephone network being monitored with regard to signals from said reply set for either disconnection of established circuit or for interpretation of specific commands.

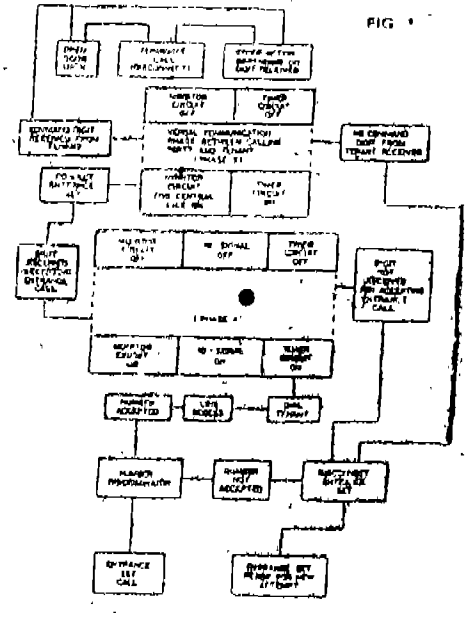


FIG 1

(Complete Specification : 24 Pages; Drawing : 4 Sheets)

Ind. Cl. : 104 F 180203

Int. Cl.[4] : G 12 B 3/68

"A DRAGELASTIC-RETURN AND DAMPING DEVICE FOR A ROTORCRAFT ROTOR BLADE."

Applicant : AEROSPATIALE SOCIETE NATIONALE INDUSTRIELLE, A FRENCH BODY CORPORATE, OF 37 BOULEVARD DE MONTMORENCY, 75781 PARIS CEDEX 16, FRANCE.

Inventors : CLAUDE BIETENHADER, ROBERT JEAN SUZZI.

Application for Patent No. : 1063/Del/90 filed on 26-10-1990.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, New Delhi-110005.

10 Claims

A drag elastic-return and damping device, for a rotorcraft rotor blade, each blade of the rotor having a foot by which it is coupled to a hub (1, 61) driven in rotation about axis (A) of the rotor and retained on said hub (1, 61) by at least one hinge (5, permitting drag oscillations of the blade in the plane of rotation of the blades of the rotor, said device (28, 88) being of the type comprising a member (29, 89) for elastic return with incorporated damping, function by shearing of a viscoelastic material (33, 93) highly stable to distortions, placed in between two rigid armatures (31, 91—32, 92) moveable relative to one another, wherein the viscoelastic material is in the form of a thin collar (33, 93) whose inner and outer walls are adhesively bonded to an outer surface of an inner armature (31, 91) and to an inner surface of an outer armature (32, 92), respectively, said outer armature being tubular, coaxial and at least partially around the inner armature (31, 91) and said thin collar and such that said inner and outer surface are substantially surfaces of revolution and coaxial with axis (B) of said member (29, 89), said outer armature (32, 92) being a lever (34, 94) projecting substantially radially outward from the member (29, 89) and on which there is articulated, by way of a first rotational (43, 103) joint, a rigid connecting rod of fixed length (30, 90) which is also equipped with a second rotational joint (44, 104) so that said connecting rod (30, 90) is integral in movement with said blade foot (13) said inner armature (31, 91) being integrally connected to a support (50a, 50b, 74) driven by the hub (1, 61) in rotation about said axis (A) of said rotor, said support not being integral in movement with said blade foot (B), such that drag oscillation of said rotor blade are transmitted by said connecting rod (30, 90) to said lever (34, 94) and to said outer armature (32, 92) which are thus driven in rotation relative to the inner armature (31, 91) about said axis (B) of said member (29, 89) said thin collar (33, 93) of viscoelastic material is stressed in shear in the circumferential direction and provides a damping of rotation of relative movements of said two armatures (31—91) (32—92) by effecting an elastic return in rotation of said two armatures into a relative initial position corresponding to a neutral position of said blade in drag.

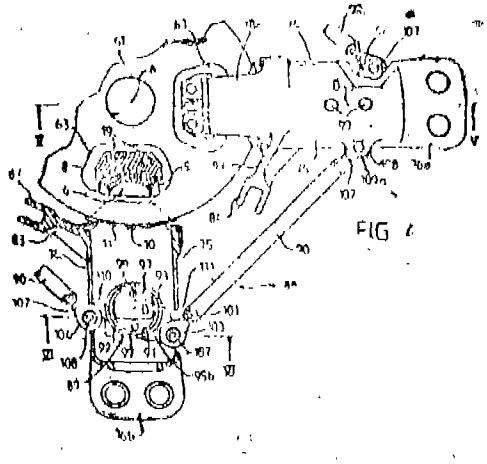


FIG 4

(Complete Specification : 46 Pages; Drawing : 3 Sheets)

Ind. Cl. : 129 N 180204

Int. Cl.[4] : B 23 K 31/02

A METHOD OF MANUFACTURE OF AN ELECTRONIC SENSOR.

Applicant : BHARAT HEAVY ELECTRICALS LTD., BHEL HOUSE, SIRI FORT, NEW DELHI-110049, AN INDIAN CO.

Inventors : KALLURI GOPALA KRISHNA MURTI, ARANTHANKI NARAYANAN DWARANKAN.

Application for Patent No. : 1083/Del/90 filed on date 31-10-90.

Complete Left after provisional specification on 20-09-91.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, New Delhi-110005.

4 Claims

A method of manufacture of an electronic sensor by joining its components such as herein described comprising :

cleaning the components to be joined together to make them free from dirt, grease or any other contaminants;

placing a foil/strip of filler material such as herein described, between said components to be joined together;

clamping said components with said filler material strip in between;

characterised in that said filler material strip being cut to a size depending on the size of said components such that to occupies the gap between said components not exceeding 0.12 mm.

subjecting the joint assembly so formed to the step of brazing by heating it preferably at a temperature of 50°C above the liquidus temperature of said filler material in the presence of an inert gas, such as Argon and simultaneously purging the same in an enclosed chamber; and followed by cooling.

(Provisional Specification : 3 Pages; Drawing : Nil)

Ind. Cl. : 24 A & 127 I 180205

Int. Cl.[4] : B 60 T 11/00

A WHEEL CHAIR FOR USE AT RAILWAY STATIONS AIRPORTS.

Applicant : ARTIFICIAL LIMBS MANUFACTURING CORPN. OF INDIA, A GOVERNMENT OF INDIA UNDERTAKING OF G T ROAD, KANPUR-208016, INDIA.

Inventor : VIJAI KUMAR CHOPRA.

Application for Patent No. : 1091/Del/90 filed on date 06-11-90.

Complete left after provisional specification on 17-05-91.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, New Delhi-110005.

3 Claims

A wheel chair for use at airports and railwaystations comprising a main frame having a seat frame for supporting a seat provided thereon, a back rest frame for supporting a back rest being secured on said main frame, a foot rest frame extending forwardly from said main frame, a pair of front and rear rotatable wheels being secured with said main frame for moving said wheel chair characterised in that a brake means being provided with said rear wheels to stop the movement of the wheel chair when required, said brake means comprises a brake pedal connected to an U shaped rod having a brake shoe secured therewith at either ends so as to grip the respective rear wheel of said wheel chair upon pressing said pedal downwardly, a spring loaded foldable stand being provided with said foot rest frame.

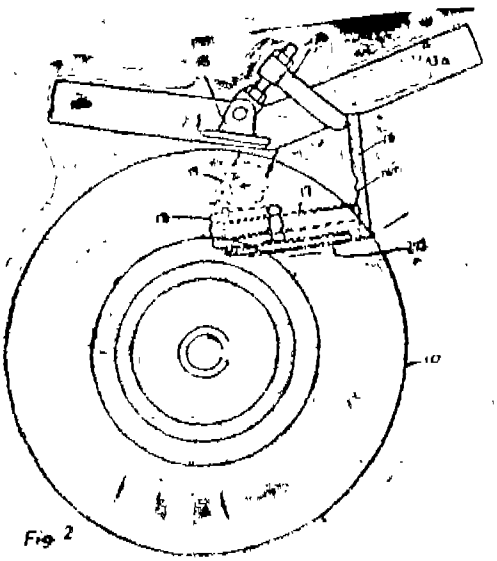


Fig. 2

(Complete Specification : 9 Pages; Drawings : 2 Sheets)
(Provisional Specification : 5 Pages; Drawings : Nil)

Ind. Cl. : 13A, 135 180206

Int. Cl.[4] : H 02 P 1/00

"A BRAKING DEVICE FOR USE WITH INDUCTION MOTORS."

Applicant : AJAY KUMAR TANDON OF DEPTT. OF ELECTRICAL ENGG. DELHI COLLEGE OF ENGG., KASHMERE GATE, DELHI-110006 AND SHIKARIPUR SREENIVASA MURTHY AND CHANDER SHEKHAR JHA OF DEPTT. OF ELECTRICAL ENGG. INDIAN INSTITUTE OF TECHNOLOGY, HAUZ KHAS, NEW DELHI-110016.

Inventors : AJAY KUMAR TANDON, CHANDER SHEKHAR JHA, SHIKARIPUR SREENIVASA MURTHY.

Application for Patent No. : 1092/Del/90 filed on 6-11-1990.

Complete left after provisional filed on 6-3-1992.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, New Delhi-110005

4 Claims

A braking device for use with induction motor (A) comprising at least a single capacitor (C_1) adapted to be connected with a pair of windings (I_1 & I_3) of said motor (A) through a switch (SW_1) connected therewith in series, for providing a braking action to said motor (A) just after the electric supply to the motor being switched off, another switch (SW_2) adapted to be connected with another pair of windings (I_3 & I_2) after a present time delay to provide magnetic braking action to said motor (A), time delay circuits (TD_1 & TD_2) being provided with said switches for the operation thereof so as to energize the capacitor.

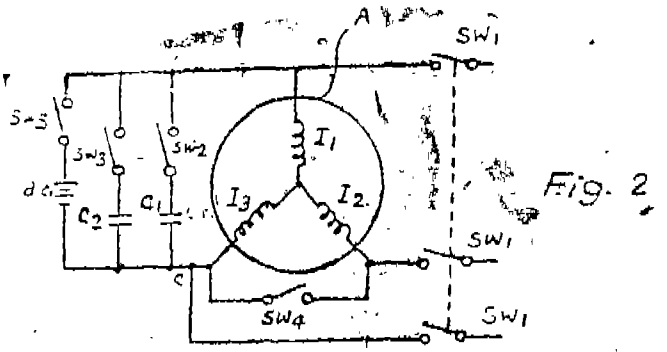


Fig. 2

(Provisional Specification : 6 Pages; Drawing Sheet : Nil)
(Original Specification : 11 Pages; Drawing : 4 Sheets)

Ind. Cl. : 189 180207

Int. Cl.[5] : A 61 F 13/16

"A SANITARY NAPKIN ATTACHABLE TO THE UNDERGARMENT OF THE WEARER."

Applicant : THE PROCTER & GAMBLE COMPANY, A CORPORATION ORGANIZED AND EXISTING UNDER THE LAWS OF THE STATE OF OHIO, UNITED STATES OF AMERICA, OF ONE PROCTER & GAMBLE PLAZA, CINCINNATI, STATE OF OHIO 45202, UNITED STATES OF AMERICA.

Inventors : THOMAS WARD OSBORN, GEORGE STEPHEN REISING, RICHARD GEORGE COE.

Application for Patent No. 1093/Del/90 filed on 6-11-1990.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, New Delhi-110005.

13 Claims

A sanitary napkin attachable to an undergarment of a wearer, having mutually orthogonal longitudinal and lateral axes, and two spaced apart longitudinal edges (30), said sanitary napkin comprising :

a liquid pervious topsheet (22);

a liquid impervious backsheet (24);

an absorbent core (26) intermediate said topsheet (22), and said backsheet (24) characterised in that there is provided a means for attaching the sanitary napkin to the undergarment, said means either being at least one flap which is extensible in a lateral direction or being joined to a surface is elastically extensible in the lateral direction of adhesive means joined to a surface that is elastically extensible in the lateral direction.

(Complete Specification : 24 Pages; Drawing Sheet : Nil)

Ind. Cl. : 32 F4b 180208

Int. Cl.[5] : C 07 D 223/10

AN IMPROVED PROCESS FOR THE MANUFACTURE OF E-CAPROLACTAM USING TITANOSILICATE DESIGNATED ASTS-2.

Applicant : COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, RAFI MARG, NEW DELHI-110001, INDIA, AN INDIAN REGISTERED BODY INCORPORATED UNDER THE REGISTRATION OF SOCIETIES ACT (ACT XXI OF 1860).

Inventors : JALE SUDHAKAR REDDY, SUBRAMANIAN SIVASANKER & PAUL RATNASAMY.

Application for Patent No. 1101/Del/90 filed on date 07-11-90.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, New Delhi-110005.

6 Claims

An improved process for the production of E-caprolactum using titanosilicate designated as TS-2 which comprises passing cyclohexanone oxime dissolved in an organic solvent in vapour form over a crystalline titanosilicate catalyst designated as TS-2 having silicallite type 2 structure with the molar formula $xTiO_2$ $(1-x)SiO_2$ wherein, x varies from 0.002=0.2 and characterized by x-ray diffraction pattern and infrared spectral data as shown in tables 1 and 2 respectively as herein described at a temperature in range of 200—400°C, and a weight hourly space velocity (WHSV) in the range of 1—15 and in the presence of a inert gas and recovering the E-caprolactum formed by conventional methods.

(Complete Specification : 14 Pages; Drawings : Nil)

Ind. Cl. : 131 B 3 180209

Int. Cl.[5] : E 21 C 3/16

A LINEAR MOTOR CONVEYANCE APPARATUS FOR A MINE OR LIFE SHAFT.

Applicant : LAMPREY INVESTMENT HOLDINGS LIMITED, A COMPANY REGISTERED ACCORDING TO THE LAWS OF THE REPUBLIC OF SOUTH AFRICA, OF 44 MAIN STREET, JOHANNESBURG, REPUBLIC OF SOUTH AFRICA.

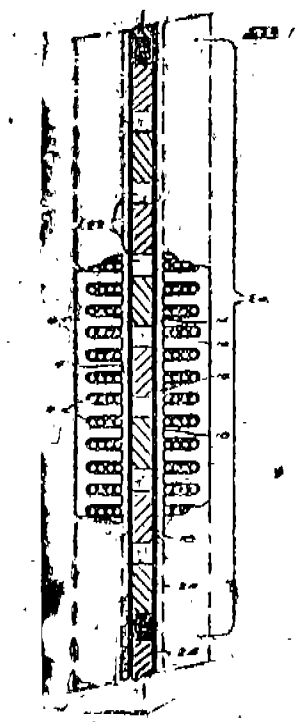
Inventors : MICHAEL JOHN NICHOLAS MANNING,

Application for Patent No. : 1116/Del/90 filed on date 12-11-90.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, New Delhi-110005.

12 Claims

A linear motor conveyance apparatus for mine or lift shaft characterized in that the apparatus comprises parallel winding support members which are spaced apart and carrying stator winding (12) and extending longitudinally in the shaft and a reaction member (16) located the winding support member (10) so as to be driven in the longitudinal direction of the shaft by electromagnetic forces, the reaction member (16) comprising a plurality of reaction elements (18) divided into groups (20), each group (20) said reaction elements (18) being encased by a casing (24), and the individual casing (24) being articulated to one another by means of pin joints (38).



(Complete Specification : 7 Pages; Drawing : 2 Sheets)

Ind. Cl. : 62 E 180210

Int. Cl.[5] : C 08 B 30/04

A PROCESS FOR THE PREPARATION OF SULPHATED STARCH FOR USE IN THE TEXTILE INDUSTRY.

Applicant : BHARAT STARCH & CHEMICALS LTD., N-75, CONNAUGHT CIRCUS, NEW DELHI-110001, INDIA, AN INDIAN COMPANY.

Inventor : KARAN THAPAR.

Application for Patent No. : 1158/Del/90 filed on date 23-11-90.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, New Delhi-110005.

4 Claims

A process for the preparation of sulphated starch for use in the textile industry as sizing agent comprising in reacting the starch as herein described with sulphuric acid in the presence of a catalyst such as urea at a Temperature of 115°C to 130°C for a period of 1/2 to 2 hours to obtain sulphated starch, said reaction mixture has a pH of 2 to 3.5.

(Complete Specification : 9 Pages; Drawings : Nil)

Ind. Cl. : 11-C 180211

Int. Cl.[4] : A 01 K 39/..1

"A FEEDER ASSEMBLY FOR BIRDS OR ANIMALS."

Applicant : C T B, INC., A CORPORATION OF THE STATE OF INDIANA P O BOX 2000 STATE ROAD 15 NORTH MILFOR, INDIANA 46542-2000, U.S.A.

Inventors : 1. THEODORE JOHN COLE, 2. RAY SWARTZENDRUBER.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Chennai Branch.

10 Claims

A feeder assembly for birds or animals comprising :

(a) feeder tube means for directing feed into the assembly, said feeder tube means being operatively associated with a feed conveyor and means for raising and lowering said feeder assembly and said feed conveyor with respect to a feeding surface;

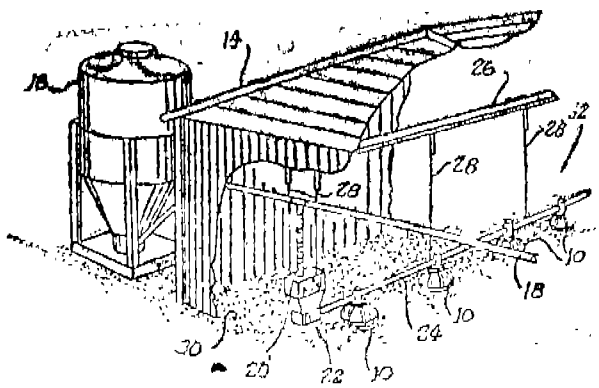
(b) cone means loosely surrounding said feeder tube means for controlling a pattern and amount of feed within the assembly;

(c) a pan member for containing and presenting feed;

(d) grill means for preventing consuming birds and animals from bodily climbing into said assembly;

(e) upper and lower feed gate means for diverting feed from said feeder tube means into said pan member, said lower feed gate automatically opening when said feeder assembly is raised above said feeding surface, and said upper feed gate automatically closing when said feeder assembly is raised above said feeding surface; and

(f) means for locking said upper feed gate in an open position to prevent automatic closure thereof when said feeder assembly is raised above said feeding surface.



(Com. : 23 Pages; Drawgs. : 7 Sheets)

Ind. Cl. : 195-D 180212

Int. Cl. : F 16 K 11/02

A DIVERTER VALVE.

Applicant : WES TECHNOLOGY INC. 3600, WEST SEGERSTROM AVE., SANTA ANA, CA 92704, U.S.A.

Inventors : SQUIRRELL, ANTON FREDERICK.

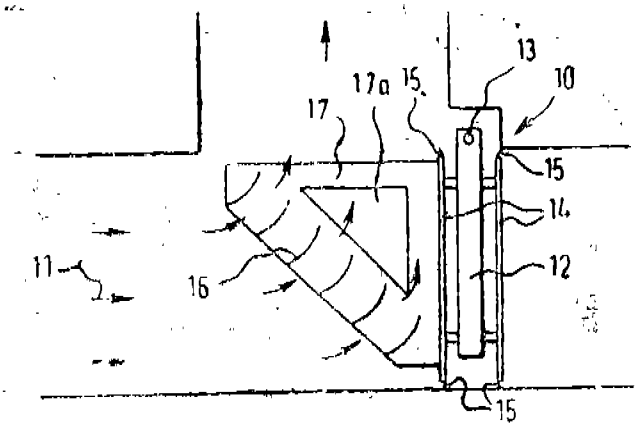
Convention dated : 17/09/90, No. 9020297.9, G. B.

Application No. 296/Mas/1991, filed on 16th Sep., 1991.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, Chennai.

5 Claims

A Diverter valve provided at a three-way junction between an inlet passageway and first and second outlet branches three from and through which junction passes a high temperature gas, the valve having a closure member pivotable between a first position wherein it closes said first outlet branch of the junction while leaving said second outlet branch open and a second position wherein it closes said second outlet branch of the junction while leaving said first outlet branch open, wherein said closure member at one side thereof carries one or more deflecting vanes, said deflecting vane or vanes being located with respect to said closure member (a) such that when the latter closes said second outlet branch, said vane or vanes is or are positioned in front of said closure member so as to serve to direct the flow of said gas from said inlet passageway into and through said first outlet branch, and (b) such that when said closure member closes said first outlet branch, said vane or vanes is or are positioned bring said closure member so as to remain out of contact with the gas flowing from said inlet passageway into and through said second outlet branch.



(Comp. Spec. 18 pages; Drwgs 3 Sheets.)

Ind. Cl. : 163 Bs, D 180213

Int. Cl.[4] : F 04 D 27/02

AXIAL-FLOW BLOWER.

Applicant : MITSUBISHI JUKOGYO KABUSHIKI KAISHA, OF 5-1, MARUNOUCHI, 2-CHOME, CHIYODO-KU, TOKYO, JAPAN.

Inventors :

(1) NOBUYUKI YAMAGUCHI

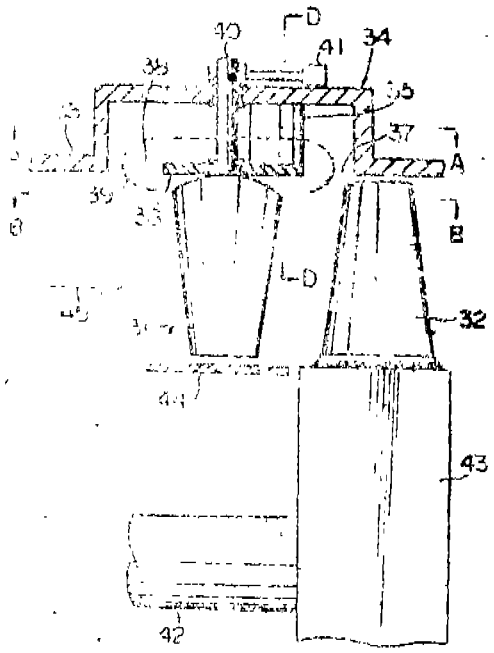
(2) MITSUSHIGE GOTO.

Application No. 699/Mas/1991 filed on 17-9-1991.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Chennai Branch.

7 Claims

An axial-flow blower having controllable pitch type inlet guide vanes comprising: an air separator having a casing portion projecting outward in a ring form on the upstream side from the leading edge of rotor vane and a plurality of straightening vanes in a circumferential direction to form a recirculating flow passage, and an upstream-side opening provided with in the upstream side of the controllable pitch type inlet guide vane or at the casing portion corresponding to the upstream side from the front half of the controllable pitch type inlet guide vane.



(Comp. Specn. 18 pages; Drwgs. 13 sheets.)

Ind. Cl. : 131 B3, C 180214

Int. Cl.[4] : E 21 C 41/26

A METHOD OF EXTRACTING MINERALS SUCH AS COAL, BAUXITE AND SLATE BY OPEN CAST MINING.

Applicant : MAN GUTEHOFFNUNGSHUTTE AKTIENGESELLSCHAFT BAHNHOFSTR. 66 4200 OBERHAUSEN 11, GERMANY, A GERMAN CORPORATION.

Inventor : DIPL.-ING. HARTMUT GRATHOFF, GERMANY.

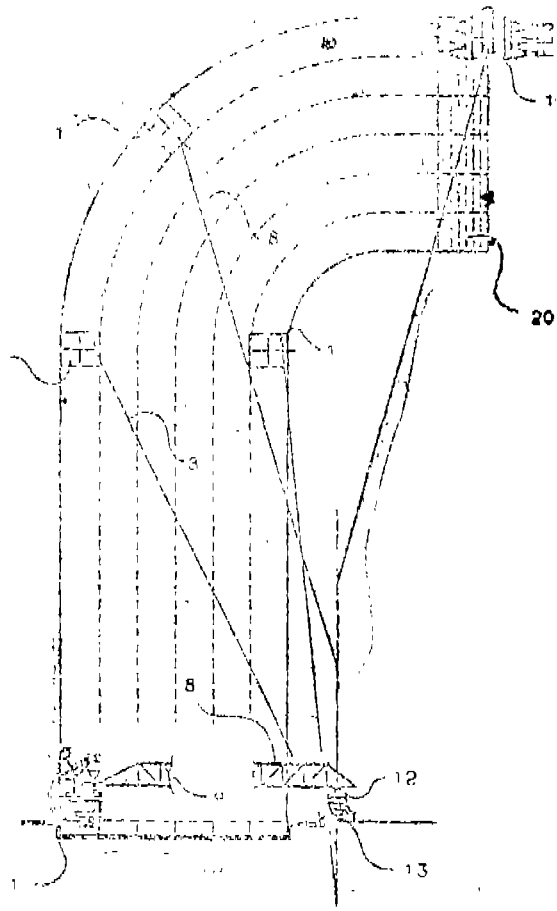
Application No. 711/Mas/91 filed 19th September 1991.

(Convention dated : 23-8-1991; No. 82662/91 Australia.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Chennai Branch.

5 Claims

A method of extracting minerals such as coal, bauxite and slate by open cast mining using a continuous mining machine having a drum-shaped cutting element, said method comprising the steps of removing mineral slices of rectangular cross section having a width approximately equal to the width of the cutting drum and the maximum height of the rectangular cross section being approximately equal to half the diameter of the cutting drum by moving the mining machine discharging the extracted material by a conveyer belt system with a loading car connected to the minning machine onto a bench conveyor belt advancing the said bench conveyer belt approximately parrallel to the direction of travel of the mining machine, wherein the rectangular section of the mine is worked starting at one of the short sides of the rectangular section, then moving along the long side of the rectangular section and ending at the opposite short side of the rectangular section, removing a mineral slice by means of the cutting drum and at each end of the mineral slices the mining machine is rotated to form 1/8th to 1/4th of a circle and at each end the slices terminate in a ramp surface which is formed by raising or lowering the cutting drum, removing a large number of mineral slices while displacing the mining machine sideways in steps corresponding a common ramp surface having an inclination which the mining machine can negotiate under its own power and for mining a terraced edge slope of the open cast mine with a development trench and extracting one after another the mineral blocks of the mine working consisting of several adjacent layers offset laterally in relation to each other, starting from the development trench each layer being made up of an equal number of adjacent mineral slices.



(Comp. Specn. 16 pages; Drwgs. 7 sheets.)

Ind. Cl. : 186-E; 194-B 180215

Int. Cl.[4] : H 04 N 9/00; H 04 N 9/70, 9

AN INTERACTIVE TELEVISION INFORAMTION SYSTEM FOR TRANSMITTING VIDEO PICTURE INFORMATION TO HOME TELEVISION.

Applicant : ICTV INC A CORPORATION OF THE STATE OF DELAWARE, USA OF 280, MARTIN AVENUE, SANTA CLARA, CALIFORNIA, U S A.

Inventors :

(1) WILLIAM LEO HOARTY

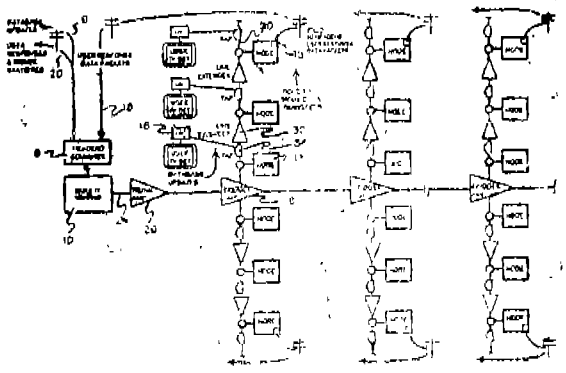
(2) GARY M. LAUDER

Application No. 726/Mas/91 filed on 24th Sept, 1991.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Chennai Branch.

8 Claims

An interactive television information system for transmitting video picture information to home televisions coupled to a cable television distribution system, comprising : a regional processing center for assembling and processing said video picture information to be transmitted over said cable distribution system; and a plurality of nodes coupled to said cable television distribution system for capturing and storing said assembled and processed video picture information transmitted by said regional processing center, each of said nodes being associated with at least one of said home televisions, each of said nodes containing a copy of said video picture information with which a subscriber can interact by communicating commands to said node.



(Com. 51 pages; Drgs. 34 Sheets.)

Ind. Cl. : 136 E 180216

Int. Cl.4 : B 29 C 49/00

ACCUMULATED HEAD FOR BLOW MOULDING MACHINE.

Applicant : MAUSER-WERKE GMBH OF SCHILDGESSTER 71-163, 5040 BRUHL, GERMANY.

Inventors :

(1) MANFRED LEHMANN

(2) PETER LANGES

Application No. 729/Mas/91 filed on 25th Sept., 1991.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Chennai Branch

16 Claims

Accumulator head for a blow moulding machine for the discontinuous manufacture of plastic hollow bodies with at least one extruder joined to the accumulator head housing to feed at least one molten plastic into the accumulator head; provided with a centrally located shaft and a distributor device concentrically enclosing the shaft in the form of a spiral-channel distributor for the distribution of molten plastic across a circular surface, to be delivered into a circular accumulator space underneath an ejecting cylinder, which is axially movable within the accumulator head housing, and to be intermittently ejected through the annular exit aperture located adjacent to the lower end of the accumulator space, wherein the ejecting cylinder (14) consists of at least two cylindric hulls (42, 44) and the spiral channels of the spiral-channel distributor (20) are positioned on one hul (42, 44) covered by the other hull (42 44) whereby the exit of plastic distributed across the cylinder surface in accumulator space (16) follows via an annular device (46) located in the ejecting cylinder (14).

(Com. 29 Pages; Drwgs. 7 sheets.)

Ind. Cl. : 21-B 180217

Int. Cl.4 : A 43 B 9/00

A SHOE.

Applicant & Inventor : RUDRAPPA CHANDRA SEKHARA AN INDIAN NATIONAL OF 201, PRIYADHARSHINI APARTMENTS, 13TH CROSS, INDIRANAGAR 2ND STAGE, BANGALORE-560 038, INDIA.

Application No. 731/Mas/91 dated September 26, 1991.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Chennai Branch.

3 Claims

A shoe comprising a sole and an upper wherein atleast the vamp portion of said upper is detachably mounted on said sole and the mating peripheral edges of said sole and upper are provided with any conventional fastening means for detachably fastening or securing said sole and upper together.

(Com. 7 pages)

Ind. Cl. : 153 180218

Int. Cl.4 : B 02 B 3/00

APPARATUS FOR USE IN THE ABRASION OF SMALL OBJECTS TO RESOURCE SURFACE MATERIAL THEREFROM.

Applicant : KOOLMILL SYSTEMS LIMITED, A BRITISH COMPANY, OF 11 STONEFORD ROAD SHIRLEY, SOLIHULL, WEST MIDLANDS, GREAT BRITAIN B 90 2EA.

Inventor : ALEXANDER STEPHEN.

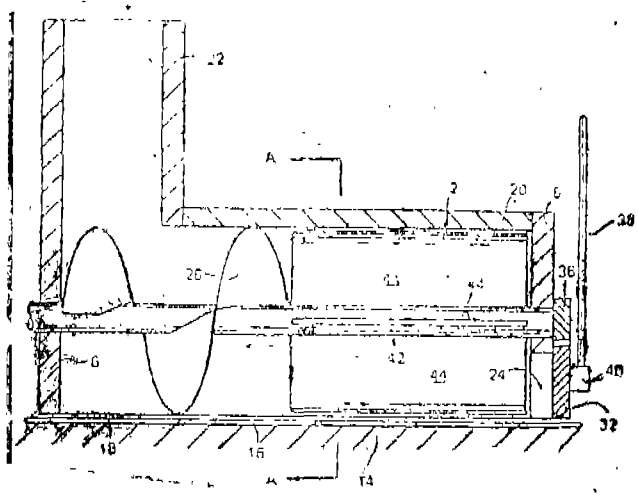
Application No. 733/Mas/1991 filed on 26th September, 1991

(Convention dated 27-9-1990; No. 90.21009.7 ; Great Britain).

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Chennai Branch.

15 Claims

Apparatus for use in the abrasion of small objects to remove surface material therefrom, comprising in combination : a chamber; a transverse wall across the chamber; means for providing an abrasive moving bottom arranged to pass under the transverse wall; an inlet for the objects to be abraded; means for feeding the objects through or from the inlet into the chamber; and an outer for abraded objects, the transverse wall being spaced from the moving bottom to provide a gap therebetween, the gap being sufficiently large to allow passage underneath the transverse wall of the surface material removed from the abraded objects but too small to allow passage of the abraded objects which therefore recirculate in the chamber, the chamber having a top opposed to the bottom and suger means being provided to generate pressure in the chamber on the recirculating objects, whereby the lowermost objects will be pressed against the bottom.



(Comp. Speen. 15 pages; Drwg. one sheet.)

Ind. Cl. : 27 I & 116 G

Int. Cl.[4] : B 65 D 88/68, 88/28 180219

AN APPARATUS FOR FILLING A RECEPTACLE WITH A DIVIDED SOLID PRODUCT.

Applicant : INSTITUT FRANCAIS DU PETROLE. A FRENCH BODY CORPORATE. OF 4 AVENUE DE BOIS PREAU 92502 RUEIL MALMAISON FRANCE.

Inventors :

(1) B. POUSSIN

(2) D. LUMBROSO.

Application No. 832/Mas/91 filed on 6-11-1991.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Chennai Branch.

10 Claims

An apparatus for filling a receptacle with at least a divided solid product said apparatus comprising : a feeder hopper. a dispersion head comprising a series of plates (15, 16, 17, 18) which are substantially parallel and coaxial versus the central axis (22), and which are disposed above one another and the surface area of which diminishes from the upper plate (18) down to the lower plate (15). the distance between the edge and the central axis possibly varying for the same plate. the whole being so devised that each plate except the lower plate (15) comprises at least one aperture to allow gravity feeding to the plate situated immediately beneath it. the lower plate (15) itself possibly comprising at least one aperture in order to feed the centre of the receptacle. the said plates being driven with a rotary movement which allows the ejection of the said divided solid by centrifugal force. the angular speed of rotation of said plates being variable. at least one distribution means (14) allowing by at least one aperture the passage of the divided solid from the hopper to the rotary plates. the said distribution means being placed at the outlet of the hopper and in front of the particle distribution plate wherein the opening and the form of the passage a section of the divided solid are adjustable by at least one anjustment means taking into account mainly the diameter of said receptable. for regulating the flow of the divided solid the allowing selective feeding of the plates respectively.

(Com. 26 Pages; Drwgs. 2 Sheets.)

Ind. Cl. : 105-C 180220

Int. Cl.[4] : G 01 D 3/04

MEASURING PROBE FOR DETECTING THE PRESENCE AT THE SITE OF THE PROBE OF ELECTRICALLY CONDUCTING MATERIAL IN GRANULAR OR LIQUID FORM.

Applicant : PRITISH GAS PLC, A BRITISH PUBLIC LIMITED COMPANY, OF RIVERMILL HOUSE, 152, PROSVENOR ROAD, LONDON SW1V 3JL., UNITED KINGDOM.

Inventors :

(1) HARRY GARRY, GREAT BRITAIN

(2) BARRY LEONARD PRICE, GREAT BRITAIN.

Application No. 834/Mas/91 dated November 7, 1991.

Convention date November 29, 1990; (No. 9025948.2; United Kingdom).

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Chennai Branch.

12 Claims

A measuring probe for detecting the presence at the site of the probe of an electrically conducting material in granular or liquid form, said probe, comprising a first electrode, a second electrode surrounding and spaced from the first electrode by a spacer formed of electrically insulating porous gas permeable ceramic material defining a plurality of intercommunicating cavities forming passages which allow flow of gas through the spacer from a first end of the spacer to an opposite second end of the spacer, said first electrode extending beyond an end of the second electrode to an end of the first electrode externally of the second electrode, the second end of the spacer having an end face substantially at the end of the second electrode and surrounding the first electrode, means for electrically connecting the first and second electrodes to a supply of electrical energy so that when a space between the electrodes is electrically bridged by the electrically conducting material an electric cirulit through the probe is completed, and means to propel gas from an interior of the probe through the cavities of the ceramic material for the gas to emerge from the probe over substantially the area of said end face.

Agents : M/s. DePenning & DePenning.

(Com. 20 pages; Drwgs. 2 sheets.)

Ind. Cl. : 65 B 180221

Int. Cl.[4] : H 01 F 15/00

A DRY INSULATED HIGH VOLTAGE TRANSFORMER AND REACTOR COIL A METHOD AND AN APPARATUS FOR MANUFACTURING THE SAME.

Applicant : RAMAMURTHY SRINIVASAN, 15, NORTH MADA STREET, SRINAGAR COLONY, CHENNAI-600 015, TAMIL NADU, INDIA.

Inventor : RAMAMURTHY SRINIVASAN.

Application No. 842/Mas/1991 filed on 11th November, 1991.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Chennai Branch.

17 Claims

A method of manufacture of dry insulated high voltage transformer and reactor coils comprising mounting a coil substantially horizontal in a heated vaccum chamber; rotating the coil about its axis until thoroughly dried, impregnating the coil with resin, by causing the resin to flow over & in between the layers of the rotating coil, the axcess resin thrown off from the coil being collected in a drain tray and recycled; restoring the chamber thereafter to atmospheric pressure while raising the temperature in the chamber and maintaining the same over an interval of time required to cure the resin completely, the rotation of the coil being continued during curing.

(Comp. Specn. 14 pages; Drwg. 1 sheet.)

Ind. Cl. : 129 Q 180222

Int. Cl.[4] : B 23 K 9/00

MULTI-LAYER WELDING PROCESS WITH HIGH HARD METAL.

Applicant : KURIMOTO, LTD., OF 12-19 KITAHORIE 1-CHOME, NISHI-KU, OSAKA, JAPAN, A JAPANESE CORPORATION.

Inventors :

(1) TOSHIYUKI ASHIDA

(2) SHIGEAKI SUGIOKA

(3) HISAO YOSHIDA

Application No. 850/Mas/1991 filed on 15th November, 1991.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Chennai Branch.

8 Claims

A multi-layer welding process for producing wear resistant surfaces by over-laying base metal surface with at least one metallic layer of higher hardness wherein the heat input value J at the time of applying the metal of higher hardness to the surface of the base metal is limited to be in the range of 2000 to 6000J/Cm; said heat input value J being calculated by

$J = 60 \times I \times E/v$

Where : J is heat input value (J/cm); E is arc voltage (V) : I is welding current (A); v is welding speed; and limiting interpass temperature to be not higher than 300°C, at all times so that a large number of fine cracks are evenly and dispersely produced on a bead of deposited metal in a direction perpendicular to the bead.

(Com. Specn. 23 Pages; Drgs. 2 Sheets.)

Ind. Cl. : 127 F 180223

Int. Cl.[4] : F 16 H 1/14

A TORQUE TRANSMITTING COUPLING DEVICE.

Applicant : HYBO SCIENCE, INC., OF DELRAY BEACH, COUNTRY OF PALM BEACH, STATE OF FLORIDA, UNITED STATES OF AMERICA. A US COMPANY.

Inventor : DR. RUDOLF RICHARD CASTENS.

Application No. 862/Mas/1991 filed on 12th November, 1991.

Appropriate Office for Oppositions Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Chennai Branch.

8 Claims

A torque transmitting coupling device comprising a first gear mamber, an input shaft connected to said gear mamber, a second geat mamber, an output shaft connected to said second gear mamber, at least one of said first or second gear members comprising an inner member and an outer member, said inner member being connected to said input or output shaft, said outer member having gear teeth disposed about the periphery thereof, said inner member defining about its outer periphery a subderivative hyperboloidal inner race surface of revolution about the axis of rotation of said gear member, said outer member defining about its inner periphery a superderivative hyperbolodial outer race surface of revolution about the axis of rotation of said gear mamber, said inner and outer race surfaces defining an annular volume there between, a plurality of cylindrical thrust transmitting rollers disposed in said colume, all said rollers being similarly inclined with respect to radial planes and making line contact with the inner race surface along a generator of the inner race surface and line contact with the outer race surface along a generator of the outer race surface, a first shoulder member connected to the inner or outer race member near a first end of said or outer race surface, respectively, adapted to support the rollers axially thereof.



(Com. Specn. 20 Pages; Drwgs. 10 Sheets.)

Int. Cl.[4] : F 16 D 41/00 180224

Ind. Cl. : 53 C, E

AN IMPROVED BICYCLE HUB ASSEMBLY.

Applicant : HYBO SCIENCE, INC, OF DELRAY BBEACH, COUNTRY OF FLORIDA U.S.A., A US COMPANY.

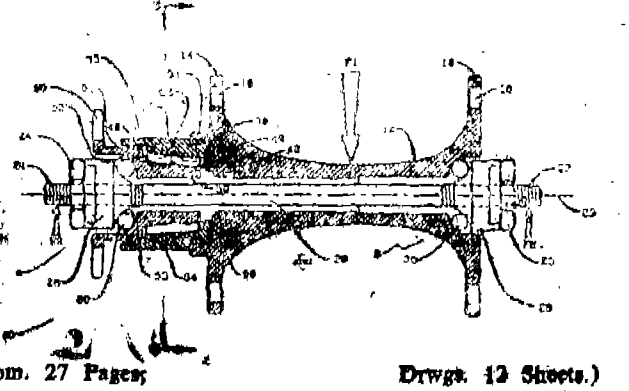
Inventor : (1) RUDOLE RICHARD CASTENS, NETHERLAND.

Application No. 863/Mas/91 dated : 19-11-1991.

Appropriate Office for Oppositions Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Chennai Branch.

4 Claims

An improved bicycle hub assembly comprising a hub means rotatably connected to an axle means; a sprocket means rotatably connected to said axle means and connected to said hub means for undirectional rotation with respect thereto by a undirectional clutch of hyperbolodial type with bearing and free wheel, the said undirectional clutch of the hyperbolodial type comprising an inner race member defining a sub-derivative hyperbolodial inner race surface of revolution about the axis of rotation of said axle means, and outer race member defining a super-derivative hyperbolodial outer race surface of revolution about said axis of rotation of said axle means, said inner and outer race surfaces defining an annular volume there between, a plurality of thrust transmitting cylindrical roller means disposed in said annular volume, all said rollers being similarly inclined with respect to radial planes, each said roller making line contact with said inner race surface along a generator of said surface, each said roller also making line contact with said outer race surface along a generator of said outer race surface, said outer race member being rigidly connected to said hub means and said inner race member being rigidly conected to said sprocket means.



(Com. 27 Pages; Drwgs. 12 Sheets.)

Ind. Cl. : 24 B 180225

Int. Cl.[4] : F 16 D 69/00

METHOD OF PRODUCING BRAKE PADS FOR DISC BRAKES.

Applicant : AKEBONO BRAKE INDUSTRY CO., LTD., A JAPANESE COMPANY, OF NO. 19-5, NIHONBASHI, KOAMI-CHO, CHUO-KU, TOKYO, JAPAN AND AKEBONO RESEARCH AND DEVELOPMENT CENTRE LTD., A JAPANESE COMPANY, OF NO. 5-4-71, HIGASHI, HANYU-SHI, SAITAMA, JAPAN.

Inventors :

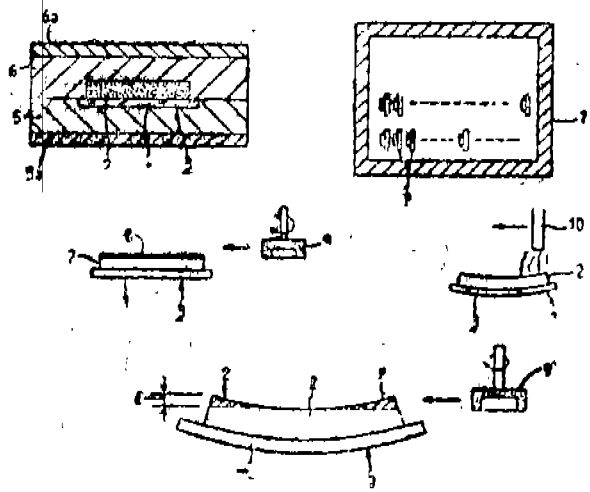
(1) HIROSHI TOKUMURA
(2) YUKIKAZU KOYANAGI
(3) TORU YOSHINO

Application No. 864/Mas/1991 filed on 19th November, 1991.

Appropriate Office for Oppositions Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Chennai Branch.

4 Claims

A method of producing a brake pad for a disc brake comprising a lining member mounted on a back plate with an exposed surface of said lining member initially having a substantially planar configuration, the method comprising the steps of : heating said exposed surface of said lining member to warp said lining member into a substantially concave configuration; and grinding said exposed surface of said lining member into a substantially planar configuration, while maintaining the warped condition of said brake pad.



(Complete. Specn. 17 Pages; Drwg. 2 Sheets.)

Int. Cl.[4] : A 61 B 1/22 180226

Ind. Cl. : 128 - F, 128 - I

A DEVICE FOR NASAL ADMINISTRATION OF A NUMBER OF MEASURED DOSES OF A LIQUID MEDICINE.

Applicant : NOVO NORDISK A/S, A DANISH JOINT-STOCK COMPANY, RESIDING AT NOVO ALLE, 2880 BAGSVAERD, DENMARK.

Inventor :

(1) JORN REX
(2) KIM STEENGAARD
(3) SVEND. ELK

Application No. 905/Mas/91 filed on 10-12-1991.

Appropriate Office for Oppositions Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Chennai Branch.

17 Claims

A device for nasal administration of a number of measured does of a liquid medicine, especially insulin, comprising a first and a second housing element coupled together to allow rotation but no axial displacement of the first housing element (1) with respect to the second housing element (2), said first housing element (1) comprising a cartridge containing the liquid and being sealed by a piston (21) at the end coupled to the second housing element (2) and being at its other end closed by a valve (7, 9) to communicate the liquid in the cartridge with a soray nozzle (12) when opened, characterized in that device further comprises a threaded piston rod (22) engaging the piston (21) of the cartridge unrotatably with respect to the first housing element (1) and disposed in the second housing element (2) to move axially therein, a nut element (27) mounted unrotatably but axially displaceably in the second housing element (2) and engaging the thread of the piston rod (22), a helical spring (32) abutting at its one end an internal annular abutment on the second housing element (2) and at its other end a shoulder on the nut element (27) topress this nut element and thereby the piston rod (22) and the piston (21) in the directions towards the outlet end of the cartridge setting the liquid thereinunder pressure to be released by opening the valve (7, 9) for spraying out a dose of the liquid the housing elements (1, 2) the rod (22) and the nut elements (27) cooperating so that relative rotation between the housing elements (1, 2) in a selected direction causes relative rotation between the rod (22) and the nut element making the nut element move axially in the second housing element (2) in a direction to compress the helical spring. (32)

(Com. 9 Pages; Drwgs. 2 Sheets.)

Ind. Class : 116-H 180227

Int. Cl.[4] : B 66 D 1/00

MULTI-DRUM WINCHING APPARATUS.

Applicant : CU LIGHTING LTD., A BRITISH COMPANY, OF CHARLES HOUSE, GREAT AMWELL, WARE, HERTFORDSHIRE SG12 9TA, GREAT BRITAIN.

Inventor : ALAN LAWRENCE.

Application No. 906/Mas/91 dated December 10, 1991.

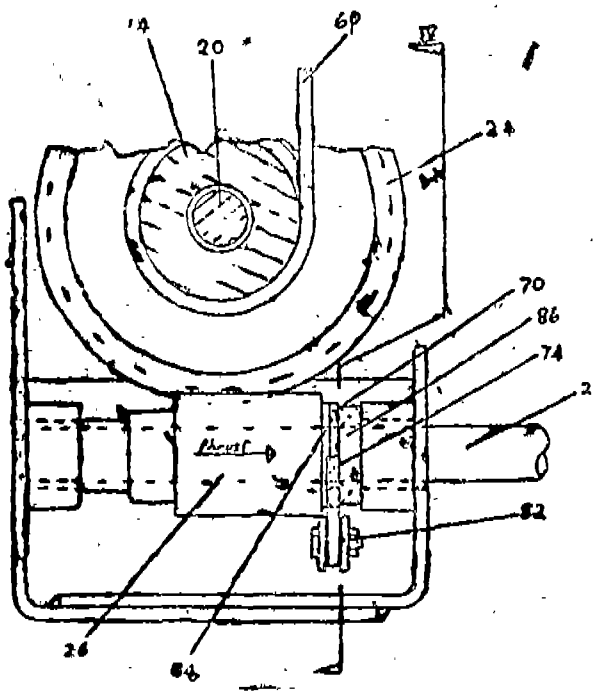
Convention date : December 12, 1990; (No. 9026953.1; United Kingdom).

Appropriate Office for Oppositions Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Chennai Branch.

10 Claims

A multi-drum winching apparatus having independently rotable drums driven by worm gears, said apparatus comprising at least one friction ratchet associated with one of the worms, said friction ratchet comprising a first annular member which is rotatable eccentrically and has a single tooth on its outer circumference, and a pivotally mounted substantially U-shaped member having a pair of arms one of which acts as a pawl for engagement with the tooth of the first annular member at the end of a lifting run of the apparatus, the first annular member being cradled for said

eccentric rotation within the arms of the pivotable U-shaped member; and a thrust ball bearing associated with the first annular member.



(Com. 12 Pages; Drwgs. 6 Sheets.)

Ind. Cl. : 117 B 180228

Int. Cl.[4] : E 05 B 63/00

AN IMPROVED SECURITY SYSTEM FOR PROTECTION AGAINST LOCK PICKING AND BURGLARY.

Applicant : K. THYAGARAJAN, INDIAN NATIONAL, OF A-5, ABHINAV GARDENS, VELACHERI ROAD, SAIDAPET, MADRAS-600 015. TAMIL NADU, INDIA.

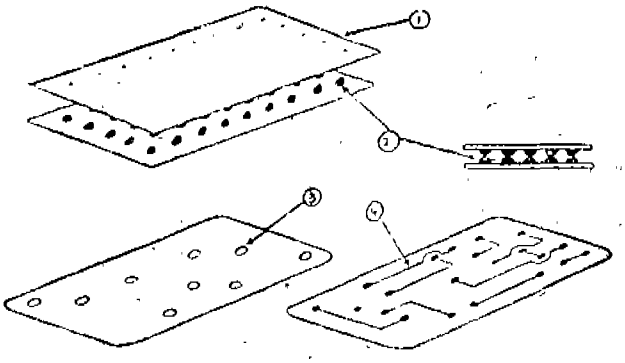
Inventor : (1) K. THYAGARAJAN.

Application No. 912/Mas/91 filed 11th December 1991.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Chennai Branch.

6 Claims

An improved security system for protection against lock-picking and burglary comprising a locking arrangement using a coded card as the operating key and two plates in combination acting as receptacles wherein the said coded card is to be inserted, each of the said plates having contact points in matrix form, the said contact points forming the path of electric circuits I and II, the I circuit for controlling electromagnetic coils, which in turn operate steel bolts, meshing into the grooves of the locking arm, the II circuit acting as a shunt circuit for fool-proof operation of the security system, a means for controlling power supply to the said circuits I and II and a means for controlling motion of said locking arm.



(Com. 9 Pages; Drwgs. 3 Sheets.)

Ind. Cl.[4] : 136-C, 129G 180229

Int. Cl.[4] : B 29 C 47/00,02

AN APPARATUS FOR SHAPING AN EXTRUDED SECTION OF AN EXTRUDABLE POLYMER DIRECTLY ONTO THE SURFACE OF AN ARTICLE.

Applicant : SAINT-GOBAIN VITRAGE INTERNATIONAL, OF "LES MIROIRS", 18 AVENUE D8, 'ALSACE 92400 COURBEVOIE FRANCE, A GERMAN COMPANY.

Inventors : (1) HEINZ DSHOOL
(2) HANS-GEORG FRIEDRICH
(3) FRIEDHELM HAMMES.

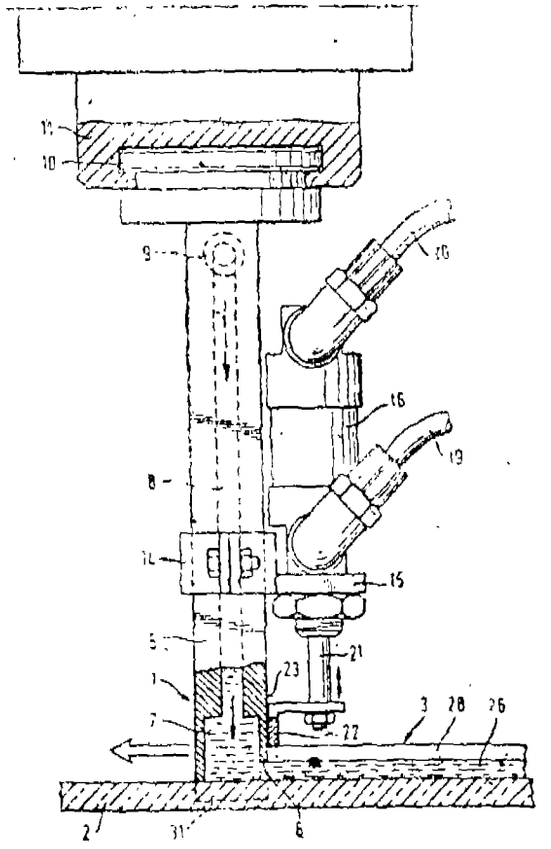
Application No. 915/Mas/91 filed on 12-12-1991.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, Chennai.

6 Claims

An apparatus for shaping an extruded section of an extrudable polymer directly onto the surface of an article, such as the edge area of the surface of a glass plate along the circumference, the said apparatus comprising an extrusion die having a lateral exit orifice for the extruded section, a distributing chamber upstream of the orifice, a robot following the glass plate edge, a dosing device to deliver a given volume flow of the polymer to be extruded to the extrusion die and a memory programmable control to guide the robt, characterised in that downstream of the orifice (8, 56) of the extrusion die a cover plate (22, 60) is placed on the die body (5, 55) and partly-covers the orifice (6, 56) in its working position, positioning means such as a jack (16) or an electric motor respectively are provided for bringing the said plate member (22, 60) into different position and adjusting means such as memory programmable control (44) are provided for adjusting the volume

flow corresponding to the different profile cross-sections with help of a dosing device (42) as well as the control of the displaceable cover plate.



(Compl. Specn. : 16 pages; Drwgs. : 4 Sheets)

Ind. Cl. : 85 G, L. 180230

Int. Cl. : F 23 g 5/10.

AN INCINERATOR FOR USED SANITARY NAPKINS.

Applicant : JAWAD AHMED, 315, 5TH MAIN, 1ST BLOCK, KORAMNGALA, BANGALORE-560 034.

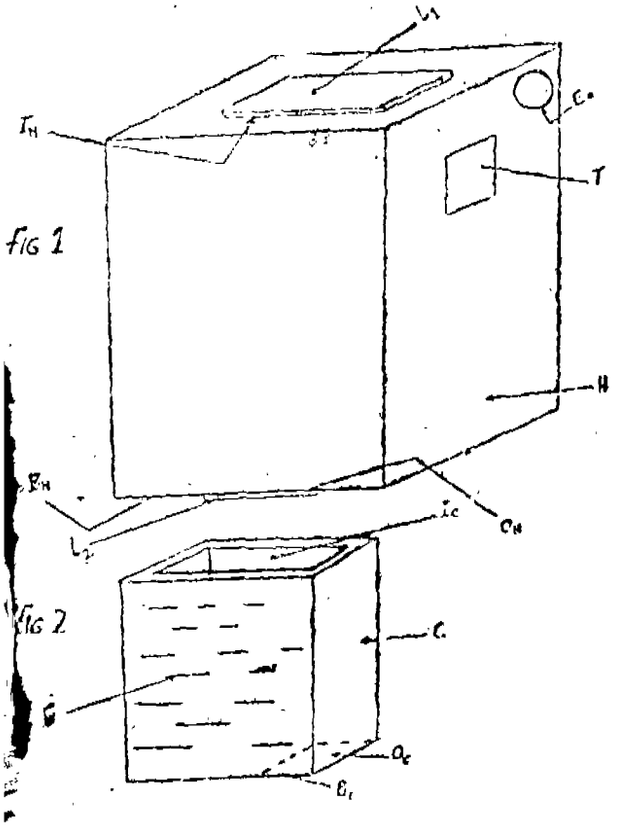
Inventors : MOHAMED YUNUS MASOOD, 3/2, CURLY STREET, RICHMOND TOWN, BANGALORE-560 025.

Application No. : 916/Mas/91. filed on 13th December, 1991.

Appropriate Office for Opposition Proceedings (Rule 4 Patents Rules, 1972), Patent Office Branch, Chennai.

10 Claims

An incinerator for used sanitary napkins comprising a chamber with an inlet opening at its top and a small outlet opening at its base, the chamber being lined with electrical heating elements connectable to a source of electric power through switching menas for switching on/off electric power thereto; a housing enclosing said chamber and spaced therefrom, said housing having an inlet opening at its top aligned with the inlet opening of the chamber and an outlet opening at its base aligned with outlet opening of the chamber, said inlet and outlet opening of the housing being provided with lids, the housing also having an exhaust opening, and the space between the housing and the chamber being occupied by a a heat insulating medium.



(Compl. Specns : 09 pages; Drgns. : 01 Sheet)

Ind. Cl. : 88D 180231

Int. Cl.[4] : C 01 B 3/02.

"A PROCESS FOR THE PREPARATION OF AMMONIA SYNTHESIS GAS".

Applicant : HALDOR TOPSOE A/S, A DANISH COMPANY, NYMOLLEVEJ 55, DK-2800 LYNGBY, DENMARK.

Inventors : (1) IVAR IVARSEN PRIMDAHL (DENMARK)

(2) GIORGIO PIGA SEERA (DENMARK).

Application No. : 921/Mas/1991 filed on 17th December, 1991.

Appropriate Office for Opposition Proceedings (Rule 4 Patents Rules, 1972), Patent Office Branch, Chennai.

7 Claims

A process for the preparation of ammonia synthesis gas by steam reforming and/or partial oxidation of a hydrocarbon feedstock comprising the steps of :

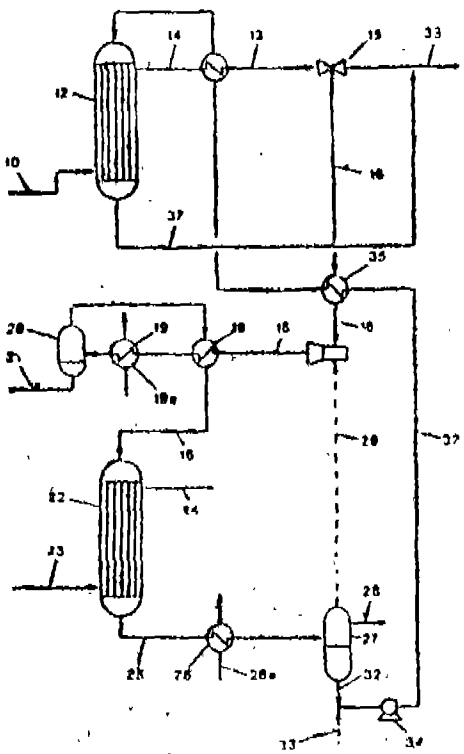
(a) dividing the steam reformed and/or partial oxidized hydrocarbon feedstock containing hydrogen, carbon oxides and nitrogen in excess of ammonia stoichiometry into a first and second portion;

(b) subjecting the first portion to catalytic conversion of hydrogen and carbon oxides contained therein to methanolrich gas;

(c) Cooling and separating the methanol rich gas from step into a liquid methanol phase essentially free of nitrogen and nitorogen rich purge gas;

(d) evaporating and catalytically cracking the methanol phase separated in step (c) to hydrogen and carbon oxide rich gas by endothermic methanol cracking reactions; and

(e) recombining the hydrogen and carbon oxide rich gas from step (d) with the second portion of the steam reformed and/or partial oxidized hydrocarbon feedstock from step (a) to obtain raw ammonia synthesis gas containing hydrogen, carbon oxides and nitrogen in an amount, corresponding to the ammonia stoichimoetry.



(Compl. Specns. : 7 pages; Drgns. : 1 Sheet)

Ind. Class : 23-H & 164-C 180232

Int. Cl.[4] : B 67 D 5-64.

"AN IMPROVED BIN FOR RECEIVING, STORING AND DISCHARGING BULK SOLID MATERIALS".

Applicant : KINERGY CORPORATION, A CORPORATION OF THE STATE OF KENTUCKY, U.S.A., OF 7310 GRADE LANE, LOUISVILLE, KENTUCKY 40219, U.S.A.

Inventor : GEORGE DAVID DUMBAUGH.

Application No. 945/Mas/91 filed on 27th December, 1991.

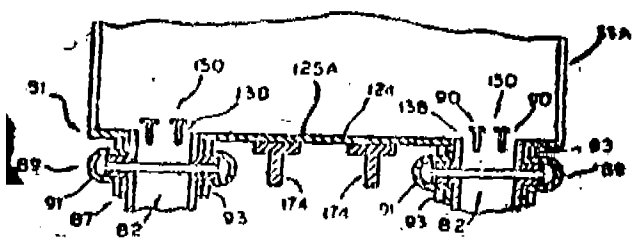
Divisional to Patent Application No. 824/Mas/88, Antedated to November 24, 1988.

Convention date : October 18, 1988; (No. 580,494; Canada).

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, Chennai.

8 Claims

An improved bin for receiving, storing and discharging bulk solid material of the types that are responsive to a vibratory conveying action, with the bin having a vessel for storing a quantity of bulk solid materials in vertical columnar form, and defining a cylindrical side wall having upper and lower ends and that is symmetrical about a vertical axis at the center of the vessel, and means for imparting a helical vibrating movement about the vertical axis to the bulk solid materials for effecting movement of the bulk solid materials received in the vessel downwardly thereof for discharge from the bin, the improvement comprising the vessel has internal baffle means between the upper and lower ends of the vessel side wall for restricting gravity flow of said materials vertically of the vessel and defining a material feed through opening for accommodating such flow, with the vessel having also a low profile bottom section defining a bulk solid materials conveying surface and at least one discharge port arrangement disposed adjacent the lower end of the vessel side wall and defining a vertically rectilinear discharge chute having a vertical central axis that said conveying surface conveys the bulk material to and that is spaced laterally of the first mentioned vertical axis, whereby the bulk solid materials storing capacity of the vessel is maximized, down feed of the bulk solid materials through said internal baffle means feed through opening is augmented by said vibrating movement, and said conveying of the bulk solid materials within the vessel bottom section effects ready discharge of same through said chute along its said central axis thereof.



(Compl. Specns. : 31 pages; Drgns. : 2 Sheets)

Ind. Cl.: 198 A 180233

Int. Cl.[4] : B 01 D 15/00.

"A SCREEN SEPARATOR".

Applicant : ANGLO AMERICAN CORPORATION OF SOUTH AFRICA LIMITED, A SOUTH AFRICAN COMPANY, OF NO. 44 MAIN, STREET, JOHANNESBURG, TRANSVAAL, REPUBLIC OF SOUTH AFRICA.

Inventor : STANELY GORDON HUNTER.

Application No. : 947/Mas/91 filed on 27th December, 1991.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, Chennai.

9 Claims

A screen separator for separating metal adsorbent particles from a pulp in a tank comprising an open topped and closed bottom cylindrical screen (14) located axially and vertically in a tank containing pulp with the open top of the screen (14) at or adjacent the full pulp surface level (38) in the tank, at least one impeller (16) located in the screen with its axis of rotation vertical thereto, drive means (12), and a drive shaft (20) connecting the drive means (12) to the impeller (16), the said impeller (16) being capable of driving the pulp in the screen (14) upwardly to a level above the surface level of the full pulp level (38) in the tank when the impeller (16) is rotated in the screen (14).

Agent : M/s. DePenning & DePenning.

(Compl. Specns. : 23 pages; Drgns. : 3 Sheets)

Ind. Cl. : 173 A 180234

Int. Cl.[4] : B 01 F 3/04.

"PROCESS AND A DEVICE FOR PRODUCING ENRICHED GAS STREAMS SATURATED WITH LIQUID".

Applicant : GALIPAG, A SWISS COMPANY, OF ROSENHUBEN 8500 FRAUENFELD, SWITZERLAND.

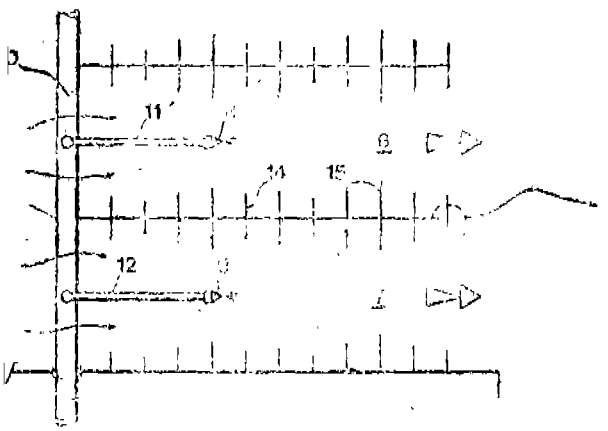
Inventor : HERMANN GASSER.

Application No. : 951/Mas/1991 filed on 30th December, 1991.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, Chennai.

11 Claims

A process for producing enriched gas stream saturated with liquid by mass thansfer between liquid and gas stream comprising the steps of spraying the liquid into a flow of the gas stream generated by force delivery wherein the gas stream is passed in the direction of the flow, through successive constrictions and widening of the flow path, so that it undergoes changes in velocity and pressurein contact with the sprayed medium, and wherein the liquid medium is sprayed by means of at least one high-pressure nozzle into the flow of the gass stream, after its flow through at least one constriction.



(Compl. Specn. : 13 pages; Drgns. : 5 Sheets.)

Ind. Cl. : 134 B 180235

Int. Cl.[4] : F 16 H 11/06.

"A CONTINUOUSLY VARIABLE TRANSMISSION FOR A VEHICLE".

Applicant : HONDA GIKEN KOGYO KABUSHIKI KAISHA, A CORPORATION OF JAPAN, OF 1-GO, 1-BAN, MINAMI AOYAMA 2-CHOME, MINATO-KU, TOKYO, JAPAN.

Inventors : (1) AKIRA HAYASHI

(2) KUNIHIKO TANAKA

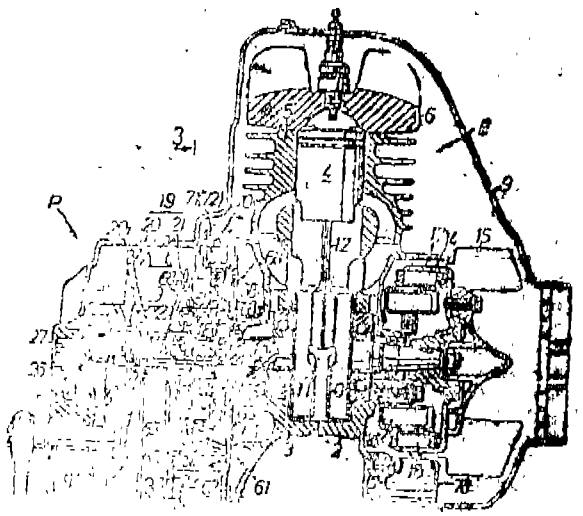
(3) GOROEI WAKATSUKI.

Application No. 952/Ma/91 filed on 30th Dec., 1991.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, Chennai.

8 Claims

A continuously variable transmision for a vehicle comprising : a drive pulley (10) compristd of a stationary pulley half (20) and a movable pulley half (21), both the pulley halves (20, 21) being mounted on an input shaft (13, 94) driven by a travelling drive source (E, M); a driven pulley (35) comprised of a stationary pulley half (33) and a movable pulley half (34), both the pulley halves (33, 34) of the driven pulley (35) being mounted on an optput shaft (32); and an endless belt (22) passed around the drive pulley (19) and the driven pulley (35); and a gear shift ratio changing means (61) which is contained in a casing (3, 8) and capable of changing the width of grooves in both the movable pulley and the driven pulley (19, 35) by a driving force of an actuator (62) to control the gear shift ratio based on an output from one or more detecting means, provided for detecting one or more operating conditions of the vehicle.



(Compl. Specns. : 31 pages; Drgns. : 22 Sheets)

Int. Cl.[4] : F 16 K 21/00. 180236

Ind. Cl. : 195. D

"A VALVE FOR CONTROLLING FLUID FLOW IN LABORATORY EQUIPMENTS LIKE BURETTES".

Applicant : SUBRAMANIAN VAIDYANATHAN 37 MANNAR REDDY STREET T. NAGAR, MADRAS-600 017, INDIAN.

Inevntor : SUBRAMANIAN VAIDYANATHAN.

Application No. : 953/Mas/91, filed on 31-12-1991.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, Chennai.

8 Claims

A valve for controlling fluid flow in laboratory equipments like burette comprising a hollow valve body provided with a valve seat having a fluid flow passage therethrough ; the said valve body housing a movable spindle assembly consisting of a stem, a sheath and a spacer, a screw thraded cap provided with a safety washer capable of holding together the said body and the spindle assembly, so as to allow only lateral movement of the stem and the sheath within the body when assembled one end of the said sheath adapted to snug fit into the remote end of the stem, and is capable of engaging the valve seat to prevent the fluid flow in the closed position, the other end thereof is provided with a ridge which encircles and annular groove provided on the said stem, the said sheath having a radially flexible external annular ridge, extending to engage the inner periphery of the bore of the said valve body, the said spacer being an extension of the said sheath holding the stem and the screw threaded cap together and engaging the safety washer of the cap in the closed position, the arrangement being such that on rotation of the screw threaded cap, the movement causes esgagement or disengagement of the sheath with the valve scar thereby regulating fluid flow there through.

(Compl. Specns. : 9 pages; Drgns. : 1 Sheet)

Ind. Cl. : 49-E 180237

Int. Cl.[4] : A 47 J 27/00.

AN IMPROVED COOKING APPLIANCE.

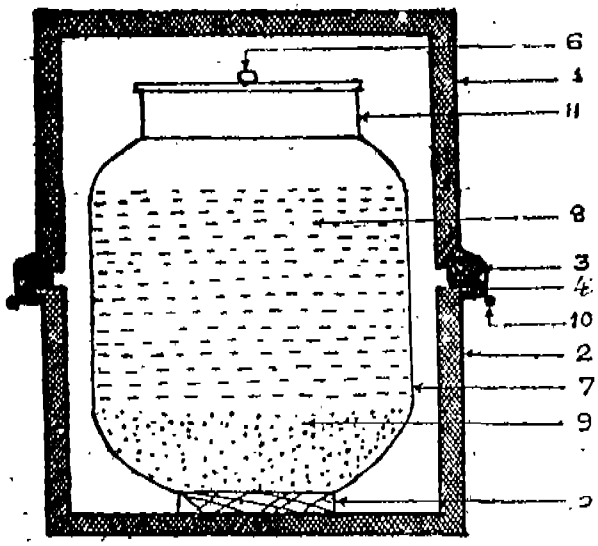
Applicant & Inventor : CHEMNAD PUTHIYAPURA ABDUL GAFOOR, M/s. ENLIGHT INDUSTRIES, B-1, INDUSTRIAL ESTATE, VIDYA NAGAR, KASARACOD-671 123, KERALA STATE, INDIA.

Application No. 107/Mas/92 dated February 24, 1992.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Chennai Branch.

13 Claims

An improved cooking appliance, comprising an insulated cooker body and a cooking pot, the said cooker body having an upper part and a lower part, the said upper part being a hollow body with a wide mouth at one end, the other end thereof being closed, the outer periphery of the said mouth extending outwardly, providing a ridge or seat, the outer end of the ridge projecting upwards perpendicularly to the seat and terminating as the said wide mouth, the said ridge or seat being provided with a gasket, the said lower part being a hollow body with a flat base and a mouth, the outer periphery of the lower part being provided with gasket positioned near the rim of its mouth, the flat base of the cooker body being provided with a base plate; the cooking pot comprising a hollow body with a flat base, the said hollow body having a neck which terminates in a mouth and a lid having a heat proof knob or handle, the outer diameter of the cooking pot being less than the inner diameter of the cooker body, the arrangement being such that when the cooking pot is positioned inside the cooker body on the base plate and the upper part of the cooker body is placed over the lower part, the inner gasket of the upper part and the outer gasket of the lower part fit snuggly to provide one single air tight unit.



(Compl. Specn. 12 pages; Drwng. 1 sheet.)

Ind. Class : 94-A 180238

Int. Cl.[4] : B 02 C 19/00.

TUBE MILL.

Applicant : DEUTSCHE BABCOCK ENERGIEUND UMWELTTECHNIK AKTIENGESELLSCHAFT, DUISBURGER STR. 375, 4200 OBERNAUSEN 1, GERMANY.

Inventors :

1. JOHANNES KERSTGES.
2. HUBERT BROSDETZKO.

Application No. 101/Mas/92 dated February 20, 1992.

Convention date : October 9, 1991; (No. 2053102; Canada).

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Chennai Branch.

7 Claims

A tube mill with a cylindrical mantle (I), which terminates in two conical end walls (2) that merge with a neck portion (3) to which an inner pipe (6) is mounted, which inner pipe is surrounded by a radially spaced apart stationary mill entry or mill exit housing (5), whereby the inner pipe (6) is surrounded by a feeding screw (12), the helix (13) of which is yieldingly mounted to inner pipe (6) and connected to a shaft (9) which is supported in a bearing (18) external of the tube mill, characterized in that the bearing housing (19) of the bearing (18) is surrounded by a radially spaced apart uniform supporting ring (22) on which the bearing housing (19) is supported by a plurality of pretensioned springs (23), which are evenly distributed over the circumference of the bearing housing (19)

(Compl. Specn. 11 pages; Drwngs. 3 sheets.)

Ind. Cl. : 163 C 180239

Int. Cl.[4] : F 16 K 31/12.

HYDRAULIC ACTUATOR FOR AN ISOLATOR.

Applicant : WES TECHNOLOGY INC., A UNITED STATES CORPORATION, OF 3600 WEST SEGERSTROM AVENUE, SANTA ANA, CA 92704, UNITED STATES OF AMERICA.

Inventor . ANTON FREDERICK SQUIRRELL.

Application No. 808/Mas/1991 filed on 24th October, 1991.

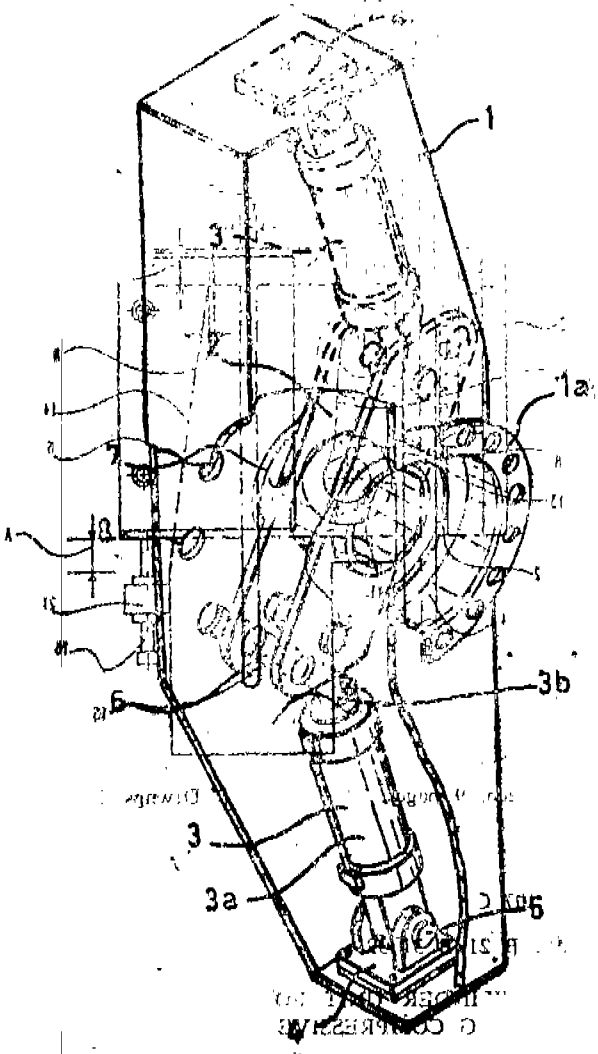
(Convention dated 26th October, 1990 : No. 9023322.2 : GB.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Chennai Branch.

2 Claims

A hydraulic actuator for an isolator, comprising a casing (1) having opposite ends and having a flange (1a) intermediate said opposite ends to be mounted to the isolator to be driven, a pair identical double acting cylindrical rams (3) housed in said casing and each having first and second ends, and a double ended lever arm assembly (2) articulated at each end thereof to a respective one of said first ends of said identical double acting cylindrical rams, said second end of each of said identical rams being respectively articulated to a respective on of said opposite ends of the casing remote

from the said flange, wherein the said identical rams are arranged to operate in opposite directions, the radial load exerted by one ram being equal in magnitude but opposite in direction to the radial load exerted by the other ram.



(Compl. Specn. 11 pages; Drwngs. 2 sheets.)

Ind. Cl. : 129 J, G 180240

Int. Cl.[5] : B 21 B 31/02.

APPARATUS FOR CLAMPING AND BALANCING PRESSING TOOL CARRIERS AND CRANK HOUSING OF AN UPSETTING PRESS.

Applicant : SMS SCHLOEMANN-SIEMAG AKTIENGESELLSCHAFT, EDUARD-SCHLOEMANN-STRASSE 4, 4000 DUSSELDORF 1, FEDERAL REPUBLIC OF GERMANY, A GERMAN COMPANY.

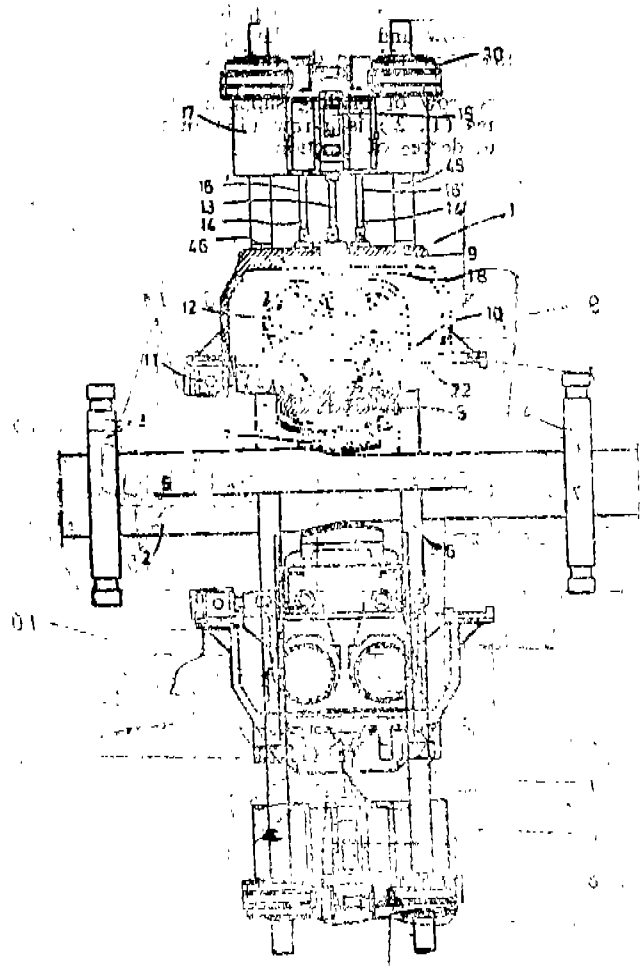
Inventor : GERHARD HEITZE.

Application No. 816/Mas/91 filed on 30th October 1991.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Chennai Branch.

10 Claims

Apparatus for clamping and balancing pressing tool carriers and crank housing of an upsetting press for the width adjustment of slabs in hot rolled wide strip mills, particularly for reducing the slab, the tool carriers being movable in direction of the slab reduction by means of a crank drive, the apparatus having a crank housing, the upsetting press having housing post members with a transverse member, the improvement comprising a middle rod system mounted in an articulated manner and guided through the crank housing attached to the tool carrier approximately in the middle thereof, two outer rod systems spaced from the middle rod system mounted in an articulated manner and attached to the crank housing, the middle rod system and the outer rod systems being connected to clamping units for applying tensile load to the rod systems, wherein the clamping units are rigidly connected to the transverse member of the housing post members of the upsetting press.



(Compl. Specn. 22 pages; Drwngs. 3 sheets.)

Ind. Cl. : 190-B 180241

Int. Cl.[5] : F 01 D 1/02.

INLET CASING FOR STEAM TURBINE.

Applicant : ASEA BROWN BOVERI LTD., OF CH-5401 BADEN, SWITZERLAND, A SWISS COMPANY.

Inventor : ROMAULD PUZYREWSKI.

Application No. 848/Mas/91 dated November 12, 1991.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Chennai Branch.

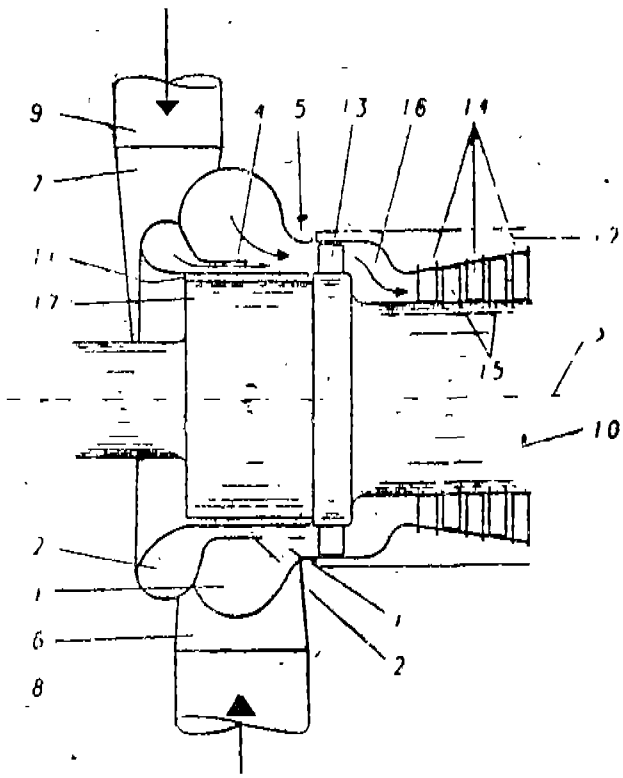
5 Claims

Inlet casing for a single-flow, axial flow high-pressure steam turbine, the flow to the first stage of which is from two mutually separated concentric annular openings, each annular opening being connected to its own inflow line, the inflow

lines being two concentrically arranged spiral casings (1, 2) which can be shut off or throttled separately and are provided on the outlet side with annular openings (1', 2') extending over 360°, the spiral cross-section of both spirals (1, 2) furthermore being designed to produce an angular momentum over the entire circumference, such that the working medium flowing out of the annular openings (1' 2') exend irrespective of the load under which the machine is operated, a tangential component which is of the order of the peripheral velocity of the first-stage blade sector supplied with the working medium and finally the cross-sections of the spiral casings (1, 2) being dimensioned for different mass flow and the concentric annular openings (1', 2') having correspondingly different heights, characterized in that

— the spiral casing (2) which is dimensioned for the smaller flow and its annular opening (2') is arranged on the rotor side in the radial direction,

— the first row of blading supplied from the annular openings (1', 2') is a row (13) of rotor blades with a small degree of reaction.



(Compl. Specn. 14 pages; Drwng. 1 sheet.)

Ind. Cl. : 116 F 180242

Int. Cl.[4] : B 66 B 5/22.

BRAKE CATCHING DEVICE FOR LEFT CAGE AND COUNTERWEIGHT.

Applicant : INVENTIO AG, A SWISS COMPANY, OF SEESTRASSE 55, CH 6052 HERGISWIL NW, SWITZERLAND.

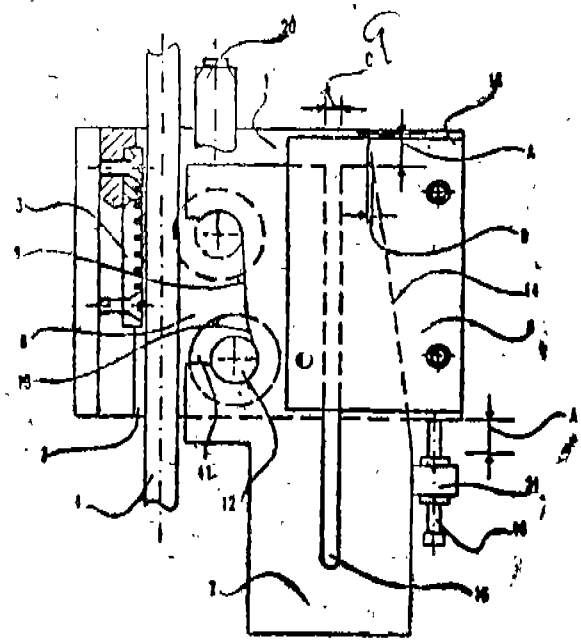
Inventor : GUNTER FROMBERG.

Application No. 851/Mas/1991 filed on 18th November, 1991.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Chennai Branch.

10 Claims

A brake catching device with a catching roller (11), which stands in interaction with a free limb (4) of a guide rail (5), in the wedge gap (8) and brake plate (3) for the braking of a lift cage or of a counterweight to standstill, characterised in that a bracket (6) which is displaceable along a wedge ramp (14) of a housing (1) is provided with a coulisse (9), which is arranged at the guide rail side and guides the catching roller (11).



(Compl. Specn. 9 pages; Drwngs. 2 sheets.)

Ind. Cl. 107 C 180243

Int. Cl.[4] : B 21 B 31/32.

PISTON-CYLINDER UNIT FOR PRODUCING AND TRANSMITTING COMPRESSIVE FORCE.

Applicant : SMS SCHLOEMANN-SIEMAG AKTIENGESELLSCHAFT OF EDUARD SCHLOEMANN-STRASSE 4, 4000 DUSSELDORF 1 FEDERAL REPUBLIC OF GERMANY.

Inventor : KARL HEINRICH SONNABEND.

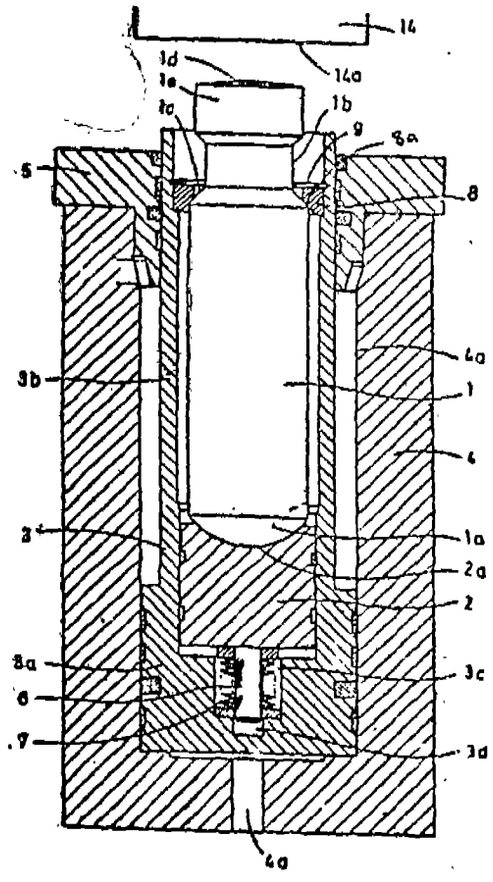
Application No. 877/Mas/91 filed on 26th Nov., 1991.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules 1972), Patent Office, Chennai Branch.

7 Claims

A piston cylinder unit for producing and transmitting compression forces to adjusting elements (14) displaceably guided in a straight line, comprising a skirt type piston (3) open on one end; a push rod (1) in said piston, abutted and sealed by ring elements against an internal wall of the skirt type piston opening and protruding from the skirt type piston opening with an end acting upon the adjusting elements (14); a floating piston (2) with a hemispherical indentation on its upper portion abutting the push rod (1), the said push rod (1) is supported to execute a pendular motion inclined to a pressure direction; a spring (7) for abutting the said floating piston (2) on its lower portion, the said floating piston (2) is displaceably guideable in the said skirt type piston (3)

and conical surfaces (8a, 1c) in an internal wall of the skirt type piston opening and on the external circumference of the push rod.



(Compl. Specn. 14 pages; Drgns. 5 sheets.)

Ind. Class : 120-B 2&4 180244

Int. Cl.[4] : F 16 N 11/00.

A DEVICE FOR AUTOMATIC APPLICATION OF GREASE.

Applicant & Inventor : N. SABAPATHY, AN INDIAN CITIZEN, OF H2/C, BHARATHIDASSAN COLONY, K. K. NAGAR, CHENNAI-600 078, TAMIL NADU, INDIA.

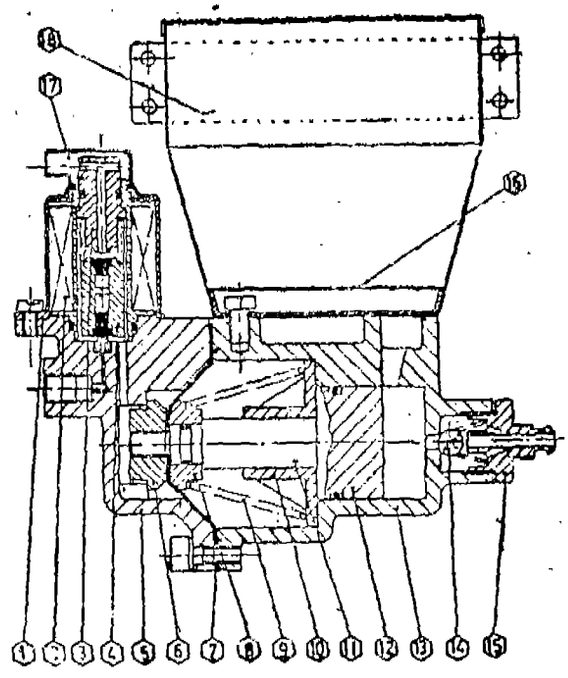
Application & Provisional Specification No. 880/Mas/91 dated November 27, 1991.

Complete Specification left : September 4, 1992.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Chennai Branch.

4 Claims

A device for automatic application of grease comprising an integrated unit consisting of a pneumatic grease pump having an air inlet for compressed air and a pumping chamber with a grease outlet, a solenoid valve, and a grease container; the pumping chamber of the said pneumatic grease pump being connected to the grease container through a passage for feeding grease to the pumping chamber, the compressed air inlet of the said pneumatic grease pump being connected to the outlet of the solenoid valve and a non-return valve being connected to the outlet of the pneumatic grease pump connecting the pumping chamber to an outlet adaptor for feeding the grease to the lubrication points.



(Prov. Specn. 5 pages; Drwngs. 3 sheets.)

(Compl. Specn. 7 pages; Drwngs. 2 sheets.)

Ind. Cl. : 115; 53A 180245

Int. Cl.[4] : A 62 B 7/00; 18/00; 17/00.

A SAFETY HELMET.

Applicant : ARAN FIRE & SAFETY (UK) LIMITED BERKELEY HOUSE, BERKELEY BUSINESS CENTRE, DONCASTER ROAD, SCUNTHORPE, DN15 7DR SOUTH HUMBERSIDE, GREAT BRITAIN, A U.K. COMPANY.

Inventor : ROBERT LOWRIE.

Application No. 886/Mas/91 filed on 3rd December, 1991.

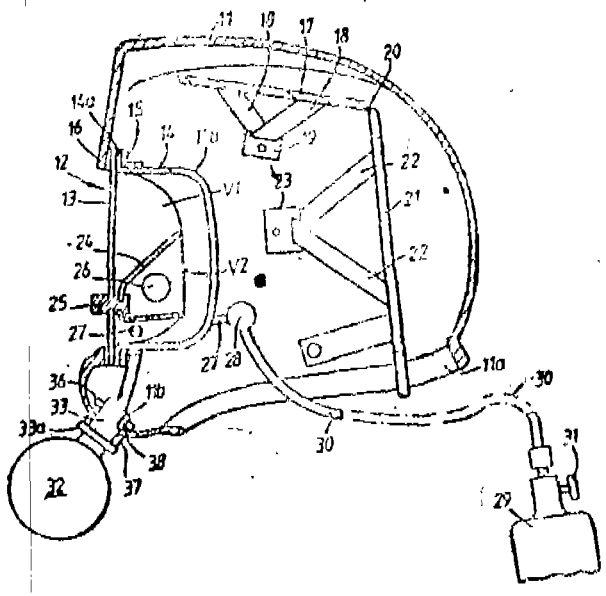
(Convention date : 4th December, 1990; No. 9026311.2; Gt. Britain).

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Chennai Branch.

18 Claims

A safety helmet to enclose the head of the wearer and to define an isolated volume to which the nostrils and mouth of the wearer are open when the helmet is fitted, characterised by a first means for supplying air to said isolated volume, said first means comprising an air supply from a pressure air source to said isolated volume, a second means for supplying breathable air to said isolated volume and control valve

means provided to close the isolated volume from said second means for supplying breathable air when the said first means is supplying air to said isolated volume.



(Compl. Specn. 17 pages; Drwng. 1 sheet.)

Ind. Cl. : 98 G 180246

Int. Cl.[4] : F 28 F 3/00.

IMPROVED HEAT EXCHANGER PLATES AND HEAT TRANSFER APPLIANCES HAVING THE SAME.

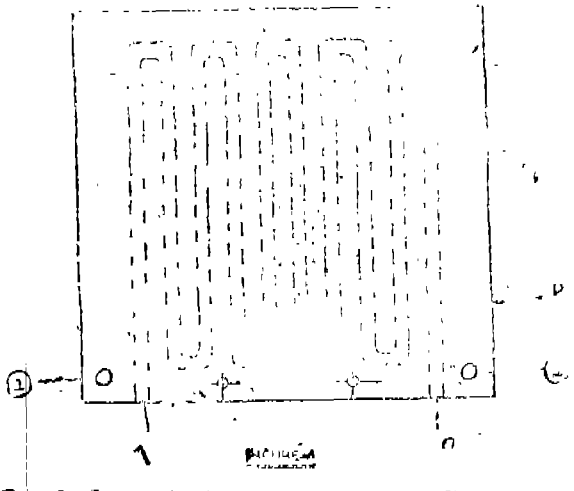
Applicants & Inventors : RAJAGOPAL RAMESH AND RAMESH JYOTHSNA, OF NO. 8, 4TH CROSS STREET, ORMES ROAD, KILPAUK, MADRAS-600010, BOTH INDIAN CITIZENS.

Application No. 338/Mas/93 dated May 18, 1993.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Chennai Branch.

11 Claims

An improved heat exchanger plate comprising at least three metallic sheet members juxtaposedly positioned and joined together as an intergal unit, the middle sheet member of the said heat exchanger plate being provided with passageways having at least an inlet and an outlet in operable communication with a source of heat transfer medium, while the external surfaces of the two outer members are very smooth and polished.



(Compl. Specn. 9 pages; Drwng. 1 sheet.)

Ind. Class : 107 G 180247

Int. Cl.[4] : F 02 D 21/08.

AN EXHAUST GAS RECIRCULATION APPARATUS FOR USE WITH AN ENGINE.

Applicant : CATERPILLAR INC., A CORPORATION ORGANIZED AND EXISTING UNDER THE LAWS OF THE STATE OF DELAWARE, OF 100 N.E. ADAMS ST., CITY OF PEORIA, STATE OF ILLINOIS 61629-6490, UNITED STATES OF AMERICA.

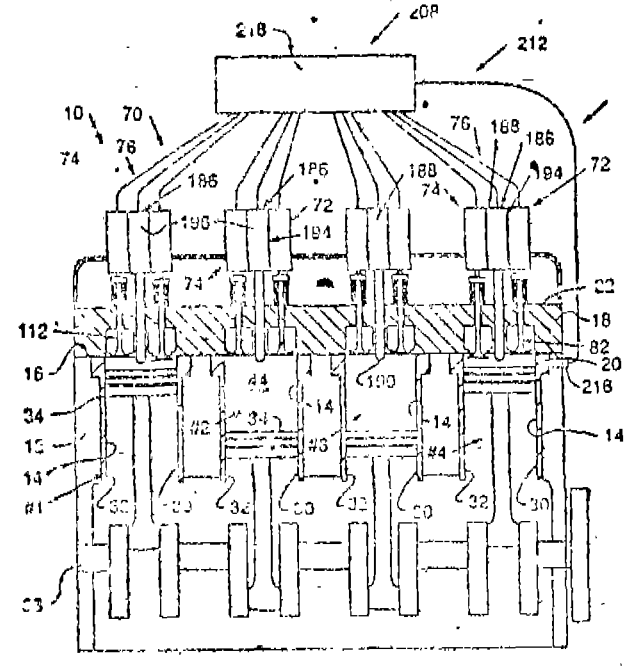
Inventors : 1. JOHN MICHAEL CLARKE 2. JAMES JOSEPH FALETTI.

Application No. 339/Mas/93 dated May 19, 1993.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Chennai Branch.

14 Claims

An exhaust gas recirculation apparatus for use with an engine, the engine having a plurality of combustion chambers, an intake port and an exhaust port for each combustion chamber, and a piston being reciprocally movable in each of the combustion chambers between a top dead center position and a bottom dead center position forming an intake stroke, movable between the bottom dead center position and the top dead center position forming a compression stroke, movable between a top dead center position and a bottom dead center position forming an expansion stroke, and movable between the bottom dead center position and the top dead center position forming an exhaust stroke, the apparatus comprising : flow control system comprising intake valves for selectively blocking and permitting flow into and away from each of the combustion chambers, and exhaust valves for selectively blocking and permitting flow into and away from each of the combustion chambers; device for actuating each of the intake valves and the exhaust valves independently in response to a control signal; and intake conducting ports operatively connected to the intake valves for conducting flow into and away from the combustion chambers; exhaust conducting ports operatively connected to the exhaust valves for conducting flow into and away from the combustion chambers; electronic control system responsive to sensed operating parameters of the engine for causing the exhaust valves of a selected subset of combustion chambers to be initiated inducting exhaust gas into the combustion chamber from the exhaust conducting ports, compressing the exhaust gas in the combustion chamber, expanding the exhaust gas in the combustion chamber, and expelling the exhaust gas into the intake conducting means by initiation of the intake valves.



(Compl. Specn. 25 pages; Drwngs. 4 sheets.)

Ind. Cl. 32-F²(ₚ) 180248

Int. Cl.⁶ : C 07 D 307/00.

AN IMPROVED PROCESS FOR PREPARATION OF A CRYSTALLINE FORM OF RANITIDINE HYDROCHLORIDE.

Applicant : CHEMINOR DRUGS LIMITED, AN INDIAN COMPANY HAVING ITS REGISTERED OFFICE AT 7-1-27, AMEERPET, HYDERABAD-500 016, ANDHRA PRADESH, INDIA.

Inventors : (1) GUNUPATI VENKATESWARAK PRASAD,
(2) DODDA MOHAN RAO,
(3) THOTA GIRIDHAR,
(4) CHAKILAM NAGARAJU.

Application No. 1213/Mds/95 dated September 20, 1995.

Appropriate Office for Opposition Proceedings (Rule 4, Patents, Rules, 1972), Patent Office, Chennai Branch.

5 Claims

An improved process for the preparation of the crystalline form-I of ranitidine hydrochloride which comprises dissolving ranitidine base in a solvent comprising isopropanol and isopropylalcohol in the ratio ranging from 1:1 to 1:6, adjusting the pH of the resulting solution to the range of 3 to 5 by passing hydrochloric acid gas through the mixture and adding ethylacetate in an amount of 1 to 6 times that of the above said solvent mixture to effect precipitation of the crystalline form-I filtering the resulting precipitate and washing the precipitate with the above said solvent mixture and drying.

(Com. : 9 pages)

Ind. Cl. : 55-E₁ 180249

Int. Cl.⁶ : A 61 K 39/00.

A PROCESS OF PURIFYING THE HEPATITIS B SURFACE ANTIGEN FROM THE EXTRACTS OF PICHIA PASTORIS.

Applicant : SHANTHA BIOTECHNICS (P) LTD., AN INDIAN COMPANY OF 8-2-2A, ROAD 40, JUBILEE HILLS, HYDERABAD-500 033, INDIA.

Inventors : (1) Dr. KONDIBOYINA VENKATA RAMANA,
(2) Dr. KOLLI SATYANARAYANA PRASAD,
(3) Mr. KONDRA VENKAT SUDHIR.

Application No. 1271/Mas/95 dated October 4, 1995.

Complete Specification left October 3, 1996.

Appropriate Office for Opposition Proceedings (Rule 4, Patents, Rules, 1972), Patent Office, Chennai Branch.

5 Claims

A process of purifying Hepatitis B Surface Antigen (HBsAg) from the extracts of Pichia pastoris which comprises :

subjecting the said extract to chromatography on anion exchange matrix as herein defined for separating cellular proteins from the extract,

eluting the said anion exchange matrix with a chaotropic agent as herein defined in presence of a buffer as herein defined to get the antigen,

removing the said chaotropic agent by diafiltration to get the antigen free of chaotropic agent,

subjecting the antigen obtained from anion exchange matrix and by diafiltration to hydrophobic interaction chromatography for further purification,

concentrating the antigen by ultrafiltration and thereafter subject to molecular sieve chromatography to obtain HBsAg of more than 95% purity.

(Prov. : 7 pages; Com. : 8 pages)

Ind. Cl. : 55-E₁ 180250

Int. Cl.⁶ : A 61 K 39/00.

PROCESS OF PURIFYING THE HEPATITIS B SURFACE ANTIGEN FROM THE EXTRACTS OF PICHIA PASTORIS.

Applicant : SHANTHA BIOTECHNICS PVT. LTD., AN INDIAN COMPANY OF 8-2-2A, ROAD 40, JUBILEE HILLS, HYDERABAD-500 033, A.P.

Inventors : (1) Dr. KONDIBOYINA VENKATAK RAMANA,
(2) Dr. KOLLI SATYANARAYANA PRASAD
(3) Mr. KONDRA VENKAT SUDHIR,
(4) Dr. AKUNDI VENKATA SREERAM.

Application No. 1739/Mas/96 dated October 3, 1996.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Chennai Branch.

6 Claims

A process of purifyisg the Hepatitis B surface antigen (HBsAg) from the extracts of Pichia pastoris for use in the formulation of Hepatitis B vaccine comprising :

(a) adsorption of the antigen in the extract in the presence of colloidal silica,

(b) desorption of the said antigen under alkaline pH,

(c) loading said antigen on anion exchange column of the kind as herein described and eluting said antigen with buffer containing sodium chloride solution in the concentration as herein described for further purification of the antigen;

(d) removing the sodium chloride from the partially purified antigen of step (c) by diafiltration,

(e) subjecting the antigen obtained in step (d) to affinity chromatography on cellulose sulfate matrix and eluting the antigen with buffer containing sodium chloride solution in the concentration as herein described, and

(f) removing the sodium chloride from the purified antigen of step (e) by diafiltration and further concentrating the purified antigen to predetermined concentration.

Ref. cited : Indian Patent Appln. No. 1271/Mas/95.

(Com. : 9 pages)

Cl. : 156 E 180251

Int Cl. : E 04 D 17/10.

LIQUID RING PUMP.

Applicant : THE NASH ENGINEERING COMPANY, OF 310 WILSON AVENUE, NORWALK, CONNECTICUT 06854 UNITED STATES OF AMERICA.

Inventors : (1) HAROLD K HAAVIK
(2) KAJ HOLM.

Application No. 21/Cal/1994 filed on 12th January, 1994.

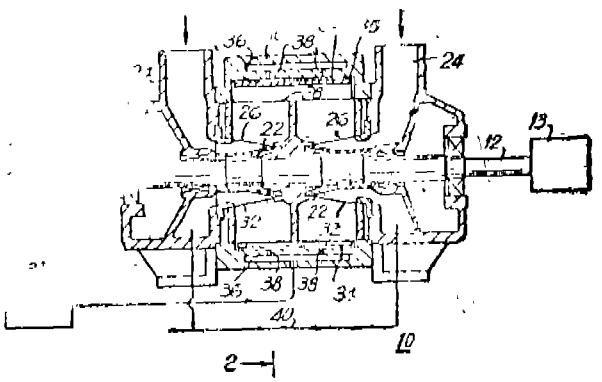
(Complete specification left after provisional on 21-11-1994).

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Calcutta.

9 Claims

A liquid ring pump (10,100) comprising an annular container (34, 170) for containing a quantity of pumping liquid, and a rotor (28, 140) disposed in said container (34, 170), said rotor (28, 140) being mounted on a shaft (12, 130) and rotatable with said shaft about a central longitudinal axis of

said shaft in order to engage said pumping liquid and form it into a recirculating annular ring inside said container (34, 170), said container being rotatable about a container axis about which said container is annular and which is parallel to but laterally spaced from said central longitudinal axis of said shaft (12, 130), characterized by a compressed gas bearing (35, 173) for at least partly supporting said container (34, 170) for rotation about said container axis, said compressed gas bearing comprising an annular housing (30, 122) substantially concentric with said container (34, 170) outside of said container and spaced therefrom by an annular clearance, said annular housing (30, 122) being connectable to a compressed gas source (33) for introducing compressed gas into said clearance so that said compressed gas substantially fills said clearance and forms said gas bearing on which said container (34, 170) rotates relative to said housing (30, 122).



(Compl. Specns. : 19 pages; Drgns. : 5 Sheets)

Cl : 27 N, 27 I 180252

Int. Cl. : B 63 B 17/02.

AWNING FOR A FLUE GAS DECONTAMINATION PROCESS.

Applicant : THE BABCOCK & WILCOX COMPANY, OF 1450 POYDRAS STREET, P.O. BOX 60035, NEW ORLEANS LA70160 UNITED STATES OF AMERICA.

Inventors :

1. WADIE FAWZY GOHARA
2. DENNIS WAYNE JOHNSON
3. ROBERT BRUCE MYERS
4. PAUL JOSEPH WILLIAMS.

Application No. 23/Cal/1994 filed on 13th January, 1994.

Appropriate Office for Opposition Proceedings (Rule 4, Patent Rules, 1972), Patent Office, Calcutta.

11 Claims

An awning for a flue gas decontamination process located over the flue gas inlet of a scrubber tower having one or more trays or grids therein wherein the improvement comprises :

a. generally flat top plate projecting into the tower and secured across the top of the flue gas inlet;

b. a pair of generally flat side plates secured to said top plate and positioned along the sides of the flue gas inlet;

c. divider means secured to the upper surface of said top plate for dividing said top plate into a plurality of compartments for the collection of a reagent slurry or bottom product therein; and

d. means for spilling a generally uniform liquid curtain of said reagent slurry or bottoms product from said compartments over the flue gas inlet thereby saturating and humidifying the incoming flue gas.

FIG 1

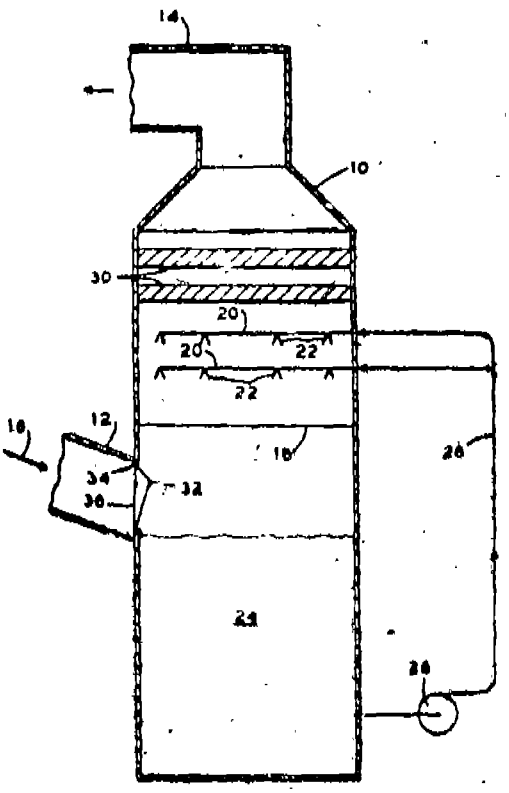
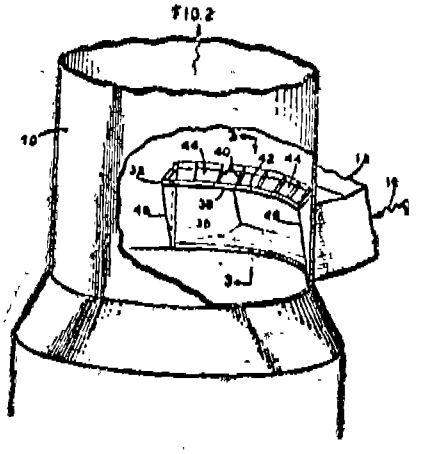


FIG 2



(Compl. Specns. : 14 pages; Drgns. : 2 Sheets)

Cl. : 35 B 180253

Int. Cl. : E 04 C 2/04

AN IMPROVED PROCESS FOR MANUFACTURE OF CEMENT BASED COMPOSITES.

Applicant & Inventor : DR. ISHWAR DAYAL VARMA, OF BIRLA BUILDING, 9/1 R.N. MUKHERJEE ROAD, CALCUTTA-700001, INDIA.

Application No. 115/Cal/1994 filed on 23rd February, 1994.

(Complete specification left after provisional on 25-04-1995).

Appropriate Office for Opposition Proceedings (Rule 4, Patent Rules, 1972), Patent Office, Calcutta.

7 Claims

An improved process for manufacture of cement based composites, such as fibre cement sheets manufactured on conventional Hatschek machine, said fibre cement sheets having reinforcing fibres selected from secondary cellulosic fibres singularly or optionally in combination with soft wood virgin pulp are processed and converted into an aqueous cellulosic slurry, which in turn optionally in combination with conventionally processed asbestos fibre slurry is mixed with cementitious and silicious binders in conventional manner characterised in that a selected defoamer comprising of an aqueous suspension is injected into the fibre cement slurry while being transferred to storage-chest such as conventional storage mixer, ensuring the said defoamer aqueous solution is thoroughly distributed into the slurry before being fed to the vats in conventional Hatschek machine and subsequently formed into fibre cement sheets, corrugated or flat and subjected to curing by water or steam in conventional manner.

Compl. Specn. : 15 pages Drgns. : Nil

Provl. Specn. : 15 pages Drgns. : Nil

Cl. : 94 C 180254

Int. Cl.[5] : B 02 C 7/00, 7/02

"REFINER SEGMENT FOR A DISC REFINER."

Applicant : SUNDS DEFIBRATOR INDUSTRIES AB, OF S-851 94 SUNDSVALL SWEDEN.

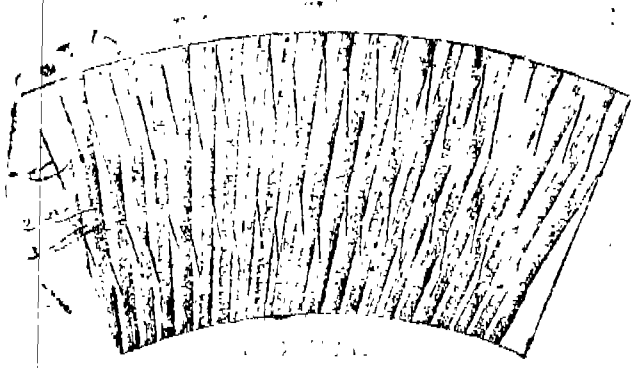
Inventor : NILS VIRVING.

Application No. : 354/Cal/1994 filed on 12th May, 1994.

Appropriate office for opposition proceedings (Rule 4, Patent Rule 1972), Patent Office Calcutta.

3 Claims

A refiner segment for a disc refiner for disintegration of lignocellulose-containing fiber material, formed with a pattern of bars (2) and intermediate grooves (3) where dams (4) are located in the grooves, characterized in that the dams (4) are so arranged that their angle in relation to the radius of the refiner segment (1) is smaller than 30°.



(Compl. Specn. : 6 Pages; Drgns. : 1 Sheet)

Cl. : 195 D G 180255

Int. Cl.[5] : F 16 K 43/00, 11/00, 11/10, 11/22, 11/18

"A DOUBLE SEAT VALVE."

Applicant : OTTO TUCHENHAGEN GMBH & CO. KG, OF AM INDUSTRIEPARK 2—10, D-2059 BUCHEN FEDERAL REPUBLIC OF GERMANY.

Inventor : DIPL.-ING. HANS OTTO MIETH.

Application No. : 369/Cal/1992 filed on 27th May, 1992.

Appropriate office for opposition proceedings (Rule 4, Patent Rule 1972), Patent Office Calcutta.

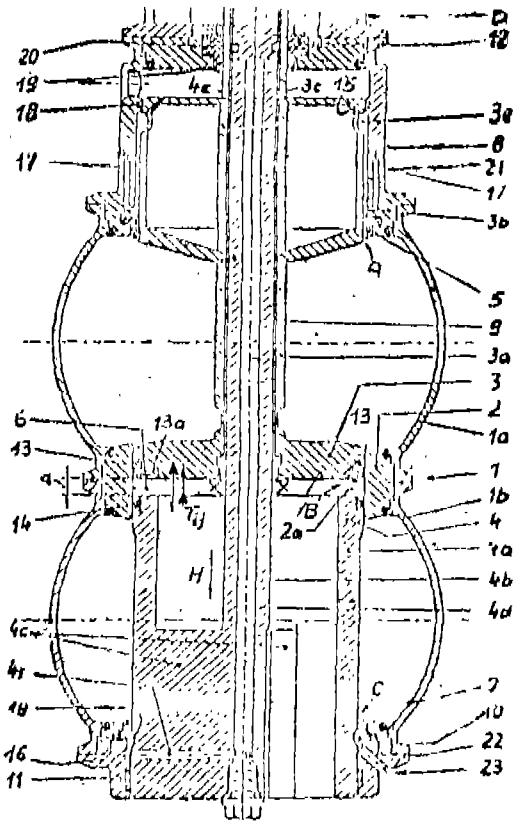
10 Claims

A double seat valve comprising a housing, a first and a second closing members housed in said housing and displaceable slidably and radially sealingly against each other, a first control rod drivingly connected to said first closing member and a second control rod drivingly connected to said second closing member, said first and second control rods extending to the outside of said housing and being connected to respective first and second control means, characterised in that :

the second closing member (4) is joined by means of a tube (4a) to the second control rod (4b), which surrounds this coaxially;

the guide passage (A) of the first control rod (3a) in a first valve housing part (1a) has a connection by means of an annular gap (9) between the first control rod (3a) and the second control rod (4b) of the other closing member (4), guided co-axially therein, to a leakage hollow space (6) and via the interior of the tube (4b) and through openings (4h) in the wall of the tube a connection to a guide passage (C) of the tube (4a) in a second valve housing part (1b); and

in case of a partial stroke of the first closing member (3) directed counter to the opening movement of the valve, the guide passage (A) is exposed, and thereby a cleaning agent stream is released.



(Compl. Specn. : 36 Pages; Drgns. : 5 Sheets)

Cl. : 128 K 180256

Int. Cl. : A 61 B 17/326

"A CIRCUMCISION APPARATUS."

Applicant & Inventor : DR. GURUCHARAN SINGH, OF NO. 146, LORONG MAAROF BUKIT BANDARAYA 59000 KUALA LUMPUR MALAYSIA.

Application No. : 218/Cal/1993 filed on 16th April, 1993.

Appropriate office for opposition proceedings (Rule 4, Patent Rule 1972), Patent Office Calcutta.

12 Claims

A circumcision apparatus including a clamp comprising a clamping ring of annular shape associated with a tubular support having an open distal end and a flared proximal end section for internal reception of the glans penis and external envelopment by the prepuce the clamping ring and the tubular support being movable relative to each other between an open position defining a prepuce-receiving gap and a closed position in which the gap is closed and locking means for locking the clamping ring in the closed position and optionally including measuring device such as herein described, characterised in that the clamp is of unitary construction consisting of outer and inner members, connected to each other by means of two levers, the said outer member being a flat circular plate with an opening in the centre, the said inner member being a hollow tube having an enlarged lower portion adapted to receive the glans of the penis inside the tube and allow the prepuce to fit over the outside of the lowered portion of the tube, the said levers being of substantially similar shape and like ends of each lever are attached separately at diametrically opposite similar position to both the aforesaid outer and inner members, and the clamping ring is displaceably mounted on the carried by the tubular support and the distal end of the said tubular support permits voiding of urine and enlargement of the penis, such that the clamp may be worn for a few days.

(Compl. Specn. : 23 Pages; Drgns. : 3 Sheets)

Cl. : 147 J 180257

Int. Cl. : H 03 H 9/25

"ACOUSTIC RESONATOR AND HEAT EXCHANGE SYSTEM INCORPORATING THE SAME."

Applicant : MACROSONIX CORPORATION, OF 1054 TECHNOLOGY PARK, DRIVE GLEN ALLEN, VIRGINIA 23060 UNITED STATES OF AMERICA.

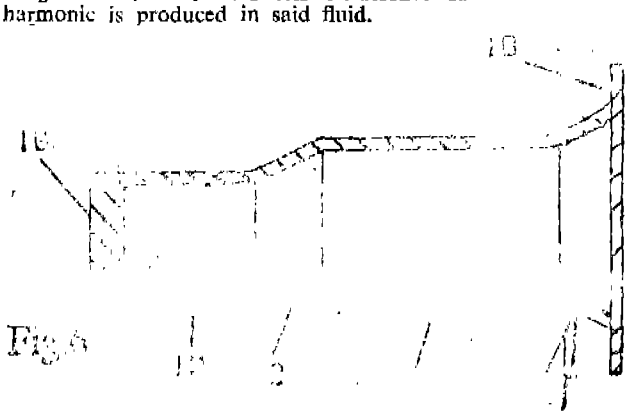
Inventor : TIMOTHY SWAIN LUCAS.

Application No. : 228/Cal/1993 on 20th April, 1993.

Appropriate office for opposition proceedings (Rule 4, Patent Rule 1972), Patent Office Calcutta.

17 Claims

An acoustic resonator comprising a chamber containing a fluid, characterised in that said chamber is a closed chamber having varying cross-sectional areas such as herein described, inside and along the said chamber, and a driver attached to said chamber to provide acoustic power to the fluid, so that destructive self-interference of at least one harmonic is produced in said fluid.



(Compl. Specn. : 27 Pages; Drgns. : 9 Sheets)

Cl. : 6 B$_8$ + 88 F 180258

Int. Cl.^{4} : C 10 K 1/02

"PROCESS AND EQUIPMENT FOR PURIFYING FLAMMABLE GAS."

Applicant : SIEMENS AKTIENGESELLSCHAFT, OF WITTELSBACHERPLATZ 2, 8000 MUENCHEN 2, GERMANY.

Inventors :

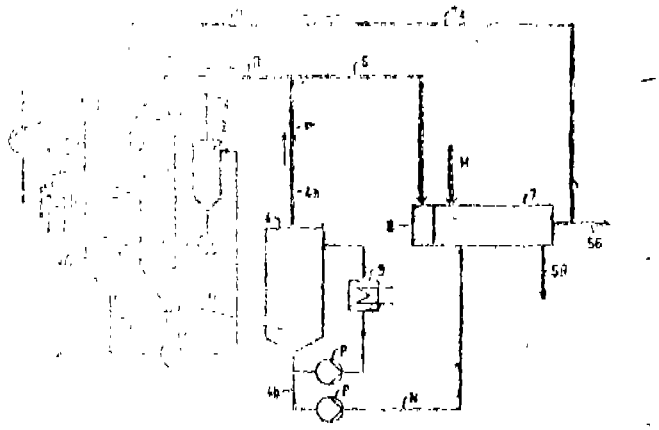
1. HERBERT TRATZ.
2. GERD BAUMGARTEL.

Application No. 572/Cal/1993 filed on 28th September, 1993.

Appropriate Office for Opposition Proceedings (Rule 4, Patent Rule 1972), Patent Office, Calcutta.

9 Claims

Process for producing a purified flammable gas mixture (R, F) from a flammable gas (G), in particular from a low-temperature carbonization gas (SG), wherein the gas (G) is scrubbed to form a pure gas (R), and a condensate (K), characterised in that the condensate (K, U) is distilled, in that the volatile constituents (F) of the condensate (K, U) are admixed to the pure gas (R), and in that the non volatile constituents (N) of the condensate (K, U) are optionally carbonized at low temperature or burnt.



(Compl. Specn. 12 pages; Drng. 1 sheet.)

Cl. : 32 C 180259

Int. Cl.^{5} : C 07 C 101/02.

CONTINUOUS PROCESS FOR THE PRODUCTION OF METHIONINE OR METHIONINE DERIVATIVES.

Applicant : DEGUSSA AKTIENGESELLSCHAFT, OF WEISSFRAUENSTRASSE 9, D-60311 FRANKFURT, GERMANY.

Inventors :

1. HANS-ALBRECHT HASSELBERG.
2. KLAUS HUTHMACHER.
3. STEPHAN RAUTENBERG.
4. HEINRICH PETSCH.
5. HORST WEIGEL.

Application No. 622/Cal/1993 filed on 18th October, 1993.

Appropriate Office for Opposition Proceedings (Rule 4, Patent Rule 1972), Patent Office, Calcutta.

17 Claims

A process for the production of methionine or one of its salts by hydrolysis of methionine nitrile to, methionine amide in the presence of a ketone, followed by saponification with a base, characterised in that ammonia, ketone and water are together drawn off during and/or after saponification of the amide at a temperature $\geq$ 85°C and/or by application of a vacuum.

(Compl. Specn. 45 pages; Drwng. 1 sheet.)

Cl. : 187 C 4 180260

Int. Cl.[4] : H 04 L 11/16.

SYSTEM OF UNITS DISTRIBUTED IN A NETWORK.

Applicant : BULL S. A., OF TOUR BULL-1, PLACE CARPEAUX-92800 PUTEAUX, FRANCE.

Inventors :

1. EDOUARD PAUGET.
2. CHRISTIAN MOLLARD.

Application No. 713/Cal/1993 filed on 22nd November, 1993.

Appropriate Office for Opposition Proceedings (Rule 4, Patent Rule 1972), Patent Office, Calcutta.

2 Claims

A system of a maximum of N SCSI units (A, B, C, D...) distributed in a network (RE) operating by a SCSI PROTOCOL in which a length of a bus, ($SCSI_1$, $SCSI_2$, $SCSI_3$) used to interconnect a plurality of SCSI units is limited to a standard maximum value, and the SCSI units are spaced at a distance which is greater than said standard maximum value, said system comprising a plurality of local partial buses ($SCSI_1$-$SCSI_3$) connected to one another via bidirectional point-to-point links (LPP_1, LPP_2), intermediate transmission devices (DIT_1, DIT_{21}, DIT_{22}, DIT_3) for managing said links, each of said devices being connected both to a partial bus and to a point-to-point link, wherein said point to point links operate in accordance with a modified SCSI protocol which takes into account lengthening of propagation time of signals on the network wherein each transmission device (DIT_1, DIT_{21}, etc.) is provided with a first interface (IL) for connection with an associated partial bus a second interface (ID) for connection with an associated bidirectional link (LPP), a central portion (ME) managing transfers of data from the partial bus to the link and vice versa, each partial bus ($SCSI_1$, $SCSI_2$, etc.) functioning in accordanee with a predetermined SCSI standard, wherein the central portion is a state machine that assures management of gaining control of a network (RE_1) on a part of any unit (A, B, C, D, ...) belonging to the network as a function of signals appearing at the first and second interface (IL, ID) said transmission devices being spaced at a distance which is greater than said standard maximum value, and further wherein an arbitration phase is defined by the SCSI standard and is used locally by each state machine (ME) at a level of the partial bus ($SCSI_1$, $SCSI_2$) associated with the corresponding intermediate transmission device (DIT_1, DIT_{21}, DIT_{23}, DIT_3), the latter being a virtual SCSI unit assigned a highest proority for its own associated partial bus during phases of arbitration and selection defined by the SCSI standard the state machine (ME) having means, such as herein described, for detecting the beginning of an arbitration phase and means, such as herein described, for neutralization acting upon the first interface to prevent any SCSI unit connected to the associated partial bus from gaining control of the network, as soon as the detecting means have detected the beginning of an arbitration phase, and further wherein each unit being assigned the highest priority has means, such as herein described, for outputting a selection signal as soon, while participating in the arbitration phase, as it has gained control of the bus to which it is connected, the state machine also having means, such as herein described, for detecting the selection signal for releasing the first interface and transmitting the selection signal to the second interface, and further wherein the state machine has means, such as herein described, for memorizing, during a predetermined delay, a degree of proority of the SCSI units seeking to gain control of the network.

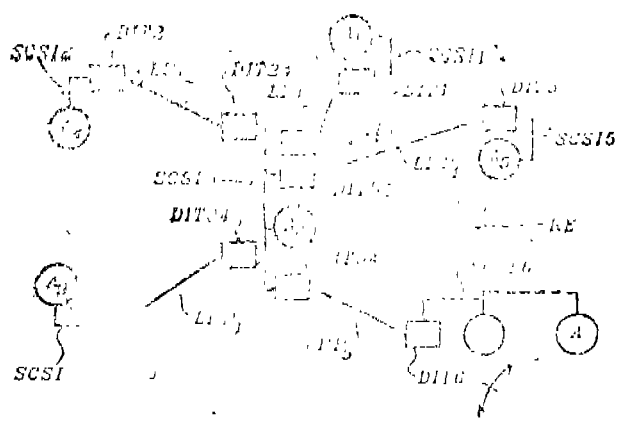


FIG.2

(Compl. Specn. 43 pages; Drngs. 7 sheets.)

OPPOSITION PROCEEDING

An opposition have been entered by M/s. Godrej Soaps Ltd., Mumbai-400 079 to the grant of a patent application No. 178509(376/Bom/94) made by M/s. Unique Pharmaceutical Laboratories Ltd., Mumbai-400 018.

RENEWAL FEES PAID

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*Patent shall be deemed to be endorsed with words LICENCE OF RIGHT under Section 87 of the Patents Act, 1970 from the date of expiration of three years from the date of sealing.

D—Drug Patents.

REGISTRATION OF DESIGNS

The following designs have been registered. They are not open to inspection for period of two years from the date of registration except as provided for in Section 50 of the Designs Act, 1911.

The date shown in the each entries is the date of the registration included in the entries.

Class 3. No. 171726, Phenoweld Polyer Pvt Ltd, Saki Vihar Lake Road, Mumbai 400072, Maharashtra, India, "Acetal Valve For Cistern", 8th July 1996.

Class 3. No. 172156, Crystal Plastics & Metallizing Pvt Ltd, at Sanghi House, Palkhi Galli, Off Veer Savarkar Marg, Prabhadevi, Mumbai 400025, Maharashtra, India, "Comb", 17th September 1996.

Class 3. No. 172207, Fancy Fittings Ltd, of 259/145 Minerva Ind. Estate, 2nd Floor, Sewri Bunder Road, Sewri (E), Mumbai 400015, Maharashtra, India, "Slide Lock", 18th September 1996.

Class 3. No. 173068, Johnson Controls Hong King Ltd., whose address is Unit 1501, 15/F, Devon House, Taikoo Place, 979 Kink's Road, Quarry Bay, Hong Kong, "Thermostat", 30th January 1997.

Class 3. No. 173318, Sunstar Lubricants Ltd. of Suite 2, 10, Hailey Road, New Delhi 110001, India, "Container With Cap", 13th March 1997.

Class 3. No. 172756, TTK Prestige Ltd having its principal place of business at 11th floor, Brigade Towers, No. 135 Brigade Road, Bangalore 560025, Karnataka, India, "Wooden Pack", 3rd December 1996.

Class 3. No. 172757 & 172758, TTK Prestige Ltd having its principal place of business at 11th floor, Brigade Towers, No. 135 Brigade Road, Bangalore 560025, Karnataka, India, "Triangular Multi Pack", 3rd December 1996.

Class 3. No. 172759, TTK Prestige Ltd having its principal place of business at 11th floor, Brigade Towers, No. 135 Brigade Road, Bangalore 560025, Karnataka, India, "Knife", 3rd December 1996.

Class 3. No. 172760, TTK Prestige Ltd having its principal place of business at 11th floor, Brigade Towers, No. 135 Brigade Road, Bangalore 560025, Karnataka, India, "Four Side Pack", 3rd December 1996.

Class 3. No. 172967, Srichakra Tyres Ltd., of No. 10, Jawahar Road, Madurai 625002, Tamilnadu, India, "Tyres", 14th January 1997.

Class 3. No. 173514, Vijay Bande, Indian national trading as Electro-Mech Engineers, at 13 Naravan Bagh, Indore 452004, M.P., India, "Foot Valve", 2nd April 1997.

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Controller General of Patents Designs & Trade Marks

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